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# BULLETIN OF PRAIRIE VIEW AGRICULTURAL AND MECHANICAL COLLEGE OF TEXAS

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## GRADUATE STUDY

1951-52

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## RECOGNITION

*The Institution is recognized as a Class "A" College by the State Department of Education and the Southern Association of Colleges and Secondary Schools. Also it is approved by the American College of Surgeons.*



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# THE COLLEGE CALENDARS

## SUMMER SESSION—1951

June 4	Registration, First Term
June 5	Classes Begin
July 14	First Term Closes
July 15	Second Term Begins
July 16	Registration, Second Term
July 17	Classes Begin
August 25	Second Term Closes

## REGULAR SESSION—1951-52

September 10-15	Faculty Orientation
September 17-20	Orientation and Registration
September 20	Classes Begin
November 13-14	Mid-semester Examinations
November 22	Thanksgiving Holiday
December 20	Christmas Holidays Begin

## 1952

January 2	Classes Resume
January 21-25	Final Examinations
January 26	First Semester Ends
January 28-29	Registration, Second Semester
January 30	Second Semester, Classes Begin
March 25-26	Mid-semester Examinations
April 21	San Jacinto Day
May 19-23	Final Examinations
May 24	Second Semester Closes

## SUMMER SESSION—1952

June 2	Registration, First Term
June 3	Classes Begin
July 12	First Term Closes
July 14	Registration, Second Term
July 15	Classes Begin
August 23	Second Term Closes

# DIVISION OF GRADUATE STUDY

## ADMINISTRATION

Administration of the Graduate Division is under the direction of the Committee on Graduate Study, which determines policies and administers them through its Chairman. Students seeking the Master's Degree are governed by the general rules of the catalogue and their work is under the general supervision of the Committee on Graduate Study.

## ADMISSION TO THE GRADUATE DIVISION

Applicants for admission to the Division of Graduate Study should submit a regular application blank properly executed at least thirty days prior to the opening of the session in which they wish to register. This is to be accompanied by an official transcript of undergraduate work completed.

Students are admitted by the Committee on Graduate Study, acting through the Chairman, to whom application should be made. For admission to the Division of Graduate Study an applicant must have received his baccalaureate degree from a senior college of recognized standing.

Graduates of such institutions who have met the prerequisite requirements of the departments or divisions in which they wish to major or customarily accepted as graduate students in full standing if they graduated in the upper 50% of their class while carrying an undergraduate program with a normal distribution of courses. All cases are considered on an individual basis. This includes a study of the courses taken and the grades made, which should average "B" or above at least in the junior-senior years of the undergraduate curriculum.

Students not eligible to admission in full standing as prospective candidates on probation or as Graduate Special students to take individual courses of the approval of the instructors concerned.

## GRADUATE WORK BY SENIORS IN THIS COLLEGE

A senior in this College who lacks six semester hours or less of having completed the requirements for the undergraduate degree may, with the approval of his undergraduate dean and the Chairman of the Committee on Graduate Study, register for graduate courses, not to exceed six semester hours, while completing his undergraduate requirements. If graduate credit is desired for any part of the work carried, the combined load of graduate and undergraduate courses must not exceed 15 semester hours.

Seniors who wish to register for graduate courses may apply to the Chairman of the Committee on Graduate Study for information as to procedure.



## REQUIREMENTS FOR THE DEGREES OF MASTER OF ARTS, MASTER OF SCIENCE, AND MASTER OF EDUCATION

Graduates of Prairie View Agricultural and Mechanical College or of any other college of approved standing may, on the satisfactory completion of an approved program of study, receive the degree of Master of Arts, Master of Science, or Master of Education. The degree received will depend upon the field of subject matter emphasized at the undergraduate and graduate levels.

The requirements for the degree are:

### 1. Admission to Candidacy—

A graduate student enrolled in the Division of Graduate Study does not automatically become a candidate for the Master's Degree. To become a candidate, the student must complete the following requirements:

- a. A candidate must be accepted by the departments in which the major and minor work are to be performed. A student to be considered for admission to candidacy for the Master's Degree must present evidence of satisfactory preparation for graduate study in the fields chosen. The general undergraduate record, the record in the fields selected for graduate study, and the record on the graduate work completed will be considered in determining admission to candidacy. As further evidence of satisfactory preparation, the major department may require the candidate to pass a qualifying examination.
- b. After twelve semester hours of graduate work have been satisfactorily completed, with an average of "B" or better, a formal application must be made for admission to candidacy. This application, approved by the heads of the major and minor departments, must be submitted to the Director of the Division of Graduate Study not later than twelve weeks prior to the date on which degree is to be conferred.

### 2. Residence—

At least a full academic year or the equivalent must be spent in residence and a minimum of thirty semester hours be earned at Prairie View. A student shall not present himself for graduation until he has six months' residence to his credit after the date on which the Graduate Faculty approved his candidacy for an advanced degree.

### 3. Course Requirements—

- a. A minimum of thirty semester hours, exclusive of thesis, with an average grade of "B," or better in courses approved for graduate credit, is required for the degrees of Master of Arts and Master of Science.
- b. Thirty-six semester hours of course work are required for the degree of Master of Education.



- c. Ordinarily, at least twenty semester hours of graduate work in the major field and ten semester hours in the minor field will be required.
- d. Not more than one workshop, two extension courses, two institutes, or a total of six semester hours in any combination of these may be counted toward the Master's degree.

#### 4. *Transfer of Credit—*

Credit obtained in a different, but recognized institution, not exceeding six semester hours, may be transferred and credited to the Master's degree, provided that the work was of graduate character and provided that acceptance of the transferred credit does not reduce the minimum residence period of one academic year. Transfer of advanced credit is not made unless requested by the student in a letter to the Director of Graduate Study. Such a transfer of credits from another institution to apply in partial fulfillment of the requirements for the Master's degree must be approved by the Graduate Committee.

#### 5. *Extension and Correspondence Courses—*

A student who has satisfied requirements for admission to the Division of Graduate Study may receive credit toward the Master's Degree for extension courses, subject to the following conditions: (1) graduate credit will be given only for courses approved by the Committee on Graduate Study; (2) the courses fit in with the student's program of study; and (3) graduate credit for extension courses shall not exceed six semester hours and shall not reduce the residence requirement for the degree.

Correspondence work is not accepted for graduate credit. With the consent of the department concerned, a student may take work by correspondence to remove deficiencies in his undergraduate training.

#### 6. *Quality of Work—*

A candidate must maintain at least a "B" average in all work taken in graduate study. Not more than 6 semester hours of work of C grade will be accepted as a part of the minimum requirement for the Master's Degree.

#### 7. *English Usage Requirement—*

A student who is deficient in English usage but who is otherwise doing satisfactory work will be required to satisfy the committee on English Usage with regard to his use of the English language, before he is allowed to graduate. Such deficiency might be determined by an English Usage Examination or by reports of instructors of courses in which a student is registered.

#### 8. *Foreign Language Option—*

At the option of the head of the department in which the major work is done, a reading and working knowledge of French, German, or Spanish may be required to complete the requirements for the Mas-



## 9. Thesis—

a. In addition to the thirty semester hours in graduate courses a satisfactory thesis is required of all candidates for the degrees of Master of Arts and Master of Science. The thesis must be written under the direction of a member of the faculty of the Graduate Division in the department in which an individual is working. The thesis must have the approval of each member of the student's reading Committee. This work must be acceptable with respect to both scholarship and literary quality. A candidate for an advanced degree must have his thesis subject approved by his Chairman at least six months before the date he expects to present himself for graduation. A statement of this approval must be filed with the Graduate Office. A candidate should complete his thesis not later than three weeks before the date of his intended graduation in order that it may be examined by each member of the Advisory Committee for the student. The following directions should be rigidly followed in the writing of the thesis.

The thesis should be typewritten, double-spaced on a durable rag bond,  $8\frac{1}{2}$  x 11 inches, leaving the left hand margin at least an inch and a quarter wide, the right hand margin at least three-quarters of an inch. Set up the title page according to the following form:

# TITLE OF THESIS

## A Thesis

Presented to the Graduate Division

of Prairie View Agricultural and Mechanical College

In Partial Fulfillment of the

Degree of

Master of Science

By

(Author's Name in Full)

(Date on which degree is to be conferred)

Following the title page there must be a biographical sketch of the author, not exceeding 200 words. An outline is furnished by the Graduate Office for this purpose. Further directions for thesis preparation will be placed in the hands of the student at the time needed.

Two copies of the thesis must be bound at the expense of the student and filed in the Graduate Office. One copy becomes the property of the Graduate Office.

b. All candidates for the degree of Master of Education are required to enroll in a seminar in connection with which a seminar paper will be written in specially prepared form approved in writing by the instructor in charge of the seminar. This paper shall deal with a topic in the student's major field of concentration.



#### 10. *Application for the Degree—*

Any candidate expecting to graduate at the end of a regular long session is required to file application for the degree expected during the first five days of the first semester of his attendance in that session on a blank available in the Registrar's Office. If graduation is expected at the end of the summer session, the application for the degree should be made during the first three days of the first term of the student's attendance in that summer session. The application should be directed to the Registrar.

#### 11. *Final Examination—*

After the thesis has been completed and filed with the Graduate Office, the candidate is required to pass a general comprehensive examination which shall be a test of the Candidate's knowledge of the study which he has mainly pursued. This examination may be written or oral or both. This general examination is conducted by the Student's Advisory Committee of which the representative of the major field shall act as Chairman, and at least two other examiners to be appointed by the Director of the Graduate School, after consultation with the Advisory Committee. Any member of the Graduate Faculty may attend the examination as a visitor.

A candidate who fails in his general examination must register in the Graduate School and carry work for an additional semester before an opportunity will be given for a second examination, unless special permission is granted by the Committee on Graduate Study for an earlier examination and the request of the department concerned.

#### 12. *Recommendation for the Degree—*

Upon completion of all requirements for the Master's Degree, candidates are certified for graduation by the Chairman of the Committee on Graduate Study. Degrees are publicly conferred at the close of the regular and the summer sessions.

#### *Time Limit on Work for Master's Degree*

A Student must complete his master's work within six consecutive years after his first enrollment in the Graduate Division.

#### *Grading System for Graduate Students*

Course work of graduate students is reported as "A" (95-100); "B" (85-94); "C" (75-84); "D" (65-74); "E" (60-64); "F" (below 60); "I" (Incomplete); and "K" (Delinquent Account).

No graduate credit is given for courses in which a grade lower than "C" is received. In order to show satisfactory progress toward an advanced degree a student must receive an average grade of "B." A graduate student is expected to maintain a "B" average in all his work. If he receives a grade of "C" or lower in one course, his subsequent registration may be restricted; if he receives a grade of "C" or lower in two or more courses, he will be placed upon probation. With further grades below "B," he will become ineligible for candidacy for the Master's Degree.

The work of a graduate student performed in connection with his thesis problem is reported as "satisfactory" or "unsatisfactory."



A graduate student may receive a grade of "I"—incomplete, in a course with the privilege of finishing the work at a later date. "Incomplete" work must be made up within twelve months after the close of the term in which the grade was earned, or no credit will be allowed for the course.

Graduate students registered in courses that are open to advanced undergraduates must do a certain amount of work in addition to that required of undergraduates. The nature of this additional work may be the reading of additional books on the subject and presenting a review of same, the making of reports, or such other work as the teacher in charge of the course may deem wise.

*Special Note:* Any person reporting for matriculation as a graduate student without having filed an application and other necessary credentials for graduate status (two weeks prior) will be given only tentative graduate status, pending the proper evaluation of undergraduate work. The student should understand that after his credentials have been examined under this tentative arrangement, the institution reserves the right to deny him graduate status even though he has completed all other parts of his registration.

## SCHOOL OF AGRICULTURE

### AGRICULTURAL ECONOMICS

The prerequisites for majoring in Agricultural Economics is the Bachelor of Science Degree in Agriculture from a recognized college of Agriculture.

To fulfill the requirements for a major in this field, one must complete at least twenty semester hours of work in Agricultural Economics. For the minor, the student is required to complete at least ten semester hours of work in the minor field agreed upon in consultation with the major professor and approved by the Dean. However, if it becomes necessary, the hours required in the major and minor fields may vary to the extent of two or three hours accumulated in either field. In such a case, the total hours must amount to thirty or more.

513. AGRICULTURAL FINANCE. (3-0) *Credit 3.* Financial requirements of individual farmers; emphasis placed on credit institutions serving the farmers. Prerequisite: Principles of Agricultural Economics.

523. MARKETING OF FARM PRODUCTS. (3-0) *Credit 3.* Study of the principles underlying successful marketing of farm products; study made of various middlemen through which farm products pass from the producer to the consumer, trips arranged for the class to visit and study markets. Prerequisite: Principles of Agricultural Economics.

552. AGRICULTURAL ECONOMICS SEMINAR. (2-0) *Credit 2.* Current problems in Agricultural Economics discussed; topics reported by students.

713. ECONOMICS OF AGRICULTURAL PRODUCTION. (3-0) *Credit 3.* Principles of production economics applied to production of major farm products in various areas; economic geography and agriculture, national production programs and the tariff on agricultural products. Prerequisite: Principles of Agricultural Economics.



723. COOPERATIVE MARKETING OF FARM PRODUCTS. (3-0) *Credit 3.* Principles underlying the successful operation of cooperative marketing organizations; examples of successful fruit, vegetable, livestock and cotton marketing associations.

733. ADVANCED FARM MANAGEMENT. BUSINESS ORGANIZATION OF TEXAS FARMS. (3-0) *Credit 3.* Use of farm management principles in the organization and operation of Texas Farms; selecting farms, farm enterprises; planning cropping systems, equipment needs, and capital, trips to representative farms by the class. Prerequisite: Principles of Agricultural Economics.

743. LAND TENURE AND PROBLEMS. (3-0) *Credit 3.* Land as a factor of production, land utilization, tenure and income. Prerequisite: Principles of Agricultural Economics.

763. AGRICULTURAL LAND USE PLANNING. LOCAL, REGIONAL AND NATIONAL. (3-0) *Credit 3.* County, state regional and national land use programs. Submarginal, and supermarginal lands; work of the Farm Security Administration, Department of the Interior, and National Resources Board.

## AGRICULTURAL EDUCATION

Undergraduate work equivalent to the Bachelor of Science degree in Agriculture is required.

501 or 502. AGRICULTURAL EDUCATION SEMINAR. (1-0 or 2-0) *Credit 1 or 2.* Designed for all graduate students having majors in Agricultural Education. Only candidates for an advanced degree are eligible to take this course.

513. METHODS OF CONDUCTING PART-TIME AND EVENING SCHOOLS IN VOCATIONAL AGRICULTURE. (3-0) *Credit 3.* Teaching Vocational Agriculture. Permission of instructor is required. An analysis of the problems related to part-time and evening schools in Vocational Agriculture and to the development of objectives and procedures in the organization and conduct of such instruction.

523. SUPERVISED PRACTICE PROGRAM BUILDING. (3-0) *Credit 3.* Teaching in Vocational Agriculture. Permission of instructor is required. Based upon researches in project accounting and analysis.

533. EXTENSION ORGANIZATION AND PROGRAM DETERMINATION. (3-0) *Credit 3.* Best procedure to be followed in developing state, county, and community programs of work, and outlining of plans of work looking to the orderly development of specific projects; discussion of the place of local leaders in extension teaching; representative organizations of rural people studied for the purpose of discovering points of contact and interest for cooperation in the conduct of extension work.

543. EXTENSION METHODS. (3-0) *Credit 3.* Aims and objectives of extension teaching and possible ways of measuring accomplishments reviewed and critically analyzed; various means and agencies employed in extension teaching as result of demonstrations, method demonstrations, meetings, news articles, personal services, bulletins, exhibits, and circular letters; evaluated from the standpoint of their teaching functions, adaptability, relative influence, cost, inter-relationship and general effectiveness.



553. ORGANIZATION AND CONDUCT OF 4-H CLUB WORK. (3-0) *Credit 3*. Development of 4-H Club programs and organization: objectives; psychological groupings; community integration; program content; community, county, state, and Federal organization, selection and use of local leaders, annual plans of work, evaluation; methods employed in 4-H work: projects, club meetings, demonstrations, judging work, exhibits achievement days, camps, short courses, and leadership training.

562-563. SPECIAL PROBLEMS IN HOME ECONOMICS EXTENSION. (2-0 or 3-0) *Credit 2 or 3*. Extension research and other data of special significance to the organization and conduct of extension work with rural women; Current problems of home demonstration workers.

571 and 571-B. YOUNG FARMER PROBLEMS I AND YOUNG FARMER PROBLEMS II. (1-2) *Credit 1*. A correlate to 572 and 622; given on an un-assembled basis for teachers in service who are enrolled in either Agricultural Education 572 or 622. The classroom instruction in these two courses is followed up on an individual enrollee on-the-job basis.

572. METHODS OF WORKING WITH OUT-OF-SCHOOL GROUPS. (1-2) *Credit 2*. Special techniques for working with young-farmer and adult-farmer groups on farm and community problems; integration of such work into the total program of Agricultural Education in the community.

622. SUPERVISED FARMING PROGRAM BUILDING FOR OUT-OF-SCHOOL GROUPS. (1-2) *Credit 2*. Enterprise planning, accounting and analysis; selecting and developing over-all supervised farming programs with special reference to working with young-farmer and adult-farmer groups.

Ag. Ed. 613. HISTORY AND PHILOSOPHY OF EXTENSION EDUCATION. (3-0) *Credit 3*. Development of Agricultural Extension Education; socio-economic influence responsible for the establishment of extension education; development of agricultural policy that has a bearing on the philosophy of extension education.

Ag. Ed. 623. PUBLIC RELATIONS AND EXTENSION EDUCATION. (3-0) *Credit 3*. Methods and practices of acquainting the public with the scope and purposes of extension work through print, radio, visual aids, and full use of written and spoken word.

Ag. Ed. 633. PSYCHOLOGY FOR EXTENSION WORKERS. (3-0) *Credit 3*. Significance of psychology to extension workers in relation to its meaning, the job of the extension worker, the meaning of education and of teaching; problem of motivation; nature of learning; basic principles and major types of learning; and conditions favorable for learning.

Ag. Ed. 643. EXTENSION WORK EVALUATION. (3-0) *Credit 3*. Measuring results of extension work; sampling procedures, analysis and interpretation, and presentation and use of data in reference to study plans; methods of systematically appraising extension work.

712 or 713. PROBLEMS IN AGRICULTURAL EDUCATION (2-0 or 3-0) *Credit 2 or 3*. Community-program approach to agricultural problems; scientific approximation of aims, objectives and standards; participation in field experiences and field research.

722 or 723. PRINCIPLES OF TEACHING METHODS IN AGRICULTURAL EDUCATION. (2-0 or 3-0) *Credit 2 or 3*. Logical and psychological bases for selecting methods of teaching agriculture.

SPECIAL NOTE.—*Majors in Agricultural Education will be advised to select additional courses in the field of Rural Education.*



## SCHOOL OF ARTS AND SCIENCES

## BIOLOGY

A student entering graduate study in the field of Biology should present at least an undergraduate minor, 20 hours or the equivalent, which includes: general Zoology, Botany and Physiology. It is preferable that he shall have had enough credits for an undergraduate major in Biology. It is expected that students who plan to qualify for the Master's degree shall become thoroughly grounded in the general principles of general Zoology, Botany, Physiology, Embryology, and Anatomy (comparative and microscopic).

If the transcript of the undergraduate record of a student does not meet the above qualifications, additional satisfactory undergraduate work will be required before the student is admitted to graduate status.

The offerings in Biology on the graduate level have been divided into six fields: (1) Embryology; (2) Genetics; (3) Histology; (4) Microbiology; (5) Physiology; and (6) General Biology plus Special Courses in Biology.

Students seeking a Master's Degree in Biology should present well chosen courses from three of these fields and pursue further work in one field. Programs should be outlined in consultation with the Professors of Biology.

*I. Embryology*

504. EMBRYOLOGY. (2-4) *Credit 4.* Descriptive embryology; vertebrate development with special reference to mammals; dissections and examination of selected embryological materials, including serial sections of the fetal pig. Prerequisite: Biology 114 and 124.

554. EXPERIMENTAL EMBRYOLOGY. (2-4) *Credit 4.* Modern problems and techniques of the development of the principles and mechanisms of development; analysis in factors operating in the morphogenesis, regeneration and development of selected vertebrates. Prerequisite: Biology 414 and 504.

604. ADVANCED VERTEBRATE EMBRYOLOGY. (2-4) *Credit 4.* Deals primarily with the very early stages in the formation of the human embryo, the mechanism of its implantation in the uterus; correlated changes in the reproductive organs of the mother, organogenesis and histogenesis. Each student takes a special problem in organogenesis. Prerequisites: Biology 414 and 504.

693. BIOLOGY OF SEX (3-0) *Credit 3.* A consideration of the biological problem of sex.

*II. Genetics*

574. GENETICS. See Biology 254.

673. CYTO-GENETICS. (3-0) *Credit 3.* Lectures, reports and laboratory work on the finer cell structures with special reference to chromosome structure, related structures and processes involved as they affect heredity.

683. EXPERIMENTAL GENETICS. (3-0) *Credit 3.* Through experimentation to show how variations may be brought about; the techniques of mating and breeding to support accepted facts.



### III. Microbiology

594. GENERAL MICROBIOLOGY. See Biology 334.

614. PROTOZOOLOGY. (2-4) *Credit 4*. Structure, Taxonomy, physiology, life history, and adaptations of protozoa, especially the nonparasitic form: Prerequisite: Biology 114 and 124.

624. GENERAL PARASITOLOGY. (2-4) *Credit 4*. Morphology, life history, diagnosis and control of the important parasites affecting man and other animals. Prerequisite: Biology 614.

### IV. Histology

514. HISTOLOGICAL TECHNIQUE. See Biology 354. In addition to the requirements of 354, the student is required to master some of the special techniques.

524. HISTOLOGY. See Biology 364.

714. CYTOLOGY. (2-4) *Credit 3*. Lectures, reports and laboratory work on the finer structure of cells and processes.

### V. Physiology

534. GENERAL PHYSIOLOGY. (2-4) *Credit 4*. Functioning of the organ systems along with the chemical and physical processes involved; quantitative experimentation on warm blooded animals basic physiological techniques; original research on a problem. Whenever possible original research sources are consulted for information to acquaint the student with the leading workers in the field and their methods, Prerequisite: Biology 324 and elementary courses in Physics and Chemistry.

544. ENDOCRINOLOGY. (2-4) *Credit 4*. Organs of internal secretion; embryology, pyslogeny, microscopic anatomy, and physiology. Prerequisites: Biology, 114, 124, and 324.

584. SPECIAL PHYSIOLOGY OF MAMMALS. (2-4) *Credit 4*. A course including the experiments not given in the general courses.

634. NEUROLOGY. (2-4) *Credit 4*. A brief review of the brain and cranial nerves of the shark; the morphology of the spinal cord and brain of a mammal; the principal tracts and nuclei (reaction systems) of the cord and brain with special reference to the human nervous system.

### VI. General Biology and Special Courses in Biology

564. SYSTEMATIC BOTANY. (2-4) *Credit 4*. A study of the local flora, giving training in the identification and classification of the higher plants. Prerequisite: Botany 134.

644. PLANT MORPHOLOGY. (2-4) *Credit 4*. Structure, reproduction, and relationships of algae, mosses, ferns, conifers and fungi. Prerequisite: Biology 134.

664. GENERAL INVERTEBRATE ZOOLOGY. (2-4) *Credit 4*. Classification, morphology, embryology, physiology, and life histories of invertebrates exculsive of insects. Prerequisite: Biology 124.

654. NATURAL HISTORY OF VERTEBRATES. (2-4) *Credit 4*. Fundamentals of life histories, relations with environment, and speciation of vertebrates. Introduction to classification of Southwestern species. Prerequisite: Biology 114 and 124.



704. BIOLOGY FOR TEACHERS. This course constitutes a training course for prospective teachers of Zoology and Botany. Lectures or conferences, field and laboratory work. Prerequisites: at least Biology 604 and 644.

600. RESEARCH. (*Credit Arranged*). Research may be carried on in any area listed which the student has a sufficient background.

640-650. SEMINAR IN BIOLOGICAL PROBLEMS. Required of all graduate students in the department. No credit.

## CHEMISTRY

Persons who plan to pursue the graduate degree in chemistry must fulfill the undergraduate requirements stipulated by the department. These requirements are essentially: one year of Inorganic Chemistry, one year of analytical chemistry, one year of organic chemistry, one year of physical chemistry. It is expected that the average grades in these courses and of courses in related fields be not less than a grade of C. The department reserves the right to give a qualification test to students and will make recommendations for the courses needed to enable student to do graduate work in chemistry.

Students who plan to minor in chemistry on the graduate level must have fulfilled all requirements for a minor in chemistry on the undergraduate level stipulated in the catalog.

Upon acceptance as a graduate student in chemistry an advisor will be assigned who shall advise the student on courses to pursue, etc.

At the completion of a minimum of twelve semester hours of graduate work in chemistry which have been satisfactorily completed with an average of "B" or better a formal application must be made for admission to candidacy. This application must be approved by the heads of the major and minor departments and submitted to the Director of the Graduate School for approval. Research projects for the thesis will be assigned AFTER THE STUDENT HAS BEEN APPROVED AS A CANDIDATE.

A reading knowledge of French or German is recommended for all candidates.

After approval of the thesis, the candidate will be given a written and/or oral preliminary examination in his major and minor fields. It is required that this exam must be taken at least *six weeks before graduation*.

The final examination will be oral and shall be over subject materials not covered in the preliminary exam and the thesis.

It is recommended that persons who plan to qualify for the M.S. Degree in chemistry spend at least two years in residence and that those who plan to study during the summer periods plan to spend at least one summer which can be devoted entirely to research. It is further required that the thesis be of the quality that it may be published in an accepted scientific journal. Below is a suggested outline of study for the various fields of chemistry. These, of course, represent the minimum requirements.



*Analytical*

Course	Hrs.
Identification of Organic Compounds .....	4 Lab and Lec
Organic theory .....	3 Lec
Physical Chemistry (Advanced) .....	3 Lec
Advanced Inorganic .....	3 Lec
Advanced Analysis .....	6 Lec and Lab
Seminar .....	2
Research .....	4
Biochemistry .....	4
Total .....	25 Hrs. (Exclusive of research)

*Biochemistry*

Course	Hrs.
Identification of Organic Compounds .....	4 Lec and Lab
Advanced Inorganic Chemistry .....	3 Lec
Advanced Analysis .....	3 Lec
Advanced Physical .....	3 Lec
Intermediate Metabolism .....	3 Lec
Advanced Organic .....	6 Lec
Seminar .....	2
Research .....	4
Total .....	24 Hrs. (Exclusive of research)

*Inorganic Chemistry*

Course	Hrs.
Identification of Organic Compounds .....	4 Lec
Advanced Inorganic Chemistry .....	6 Lec and Lab
Advanced Physical .....	3 Lec
Advanced Organic .....	3 Lec
Advanced Analytical .....	3 Lec
Seminar .....	2 Lec
Biochemistry .....	4
Total .....	25 Hrs. (Exclusive of research)

*Organic*

Course	Hrs.
Identification of Organic Compounds .....	4 Lab and Lec
Advanced Organic Chemistry .....	6 Lab and Lec
Advanced Inorganic Chemistry .....	3 Lec
Advanced Physical .....	3 Lec
Advanced Analytical .....	3 Lec
Seminar .....	2
Research .....	4
Biochemistry .....	4
Total .....	25 Hrs. (Exclusive of research)

## COURSES

613 AND 623. ADVANCED INORGANIC CHEMISTRY. (3-0) *Credit 3.* The periodic law; several forms of the table. Quantum numbers. A brief discussion of chemical bonds and resonance. Structure and properties of typical non-metallic compounds. Behavior of electrolytes in non-aqueous solvents.

701. CHEMICAL PRINCIPLES. (1-0) *Credit 1.* Fundamental concepts and principles of chemistry; designed especially for persons interested in the teaching of chemistry. Prerequisite: Graduate or advanced undergraduate student.



704. ADVANCED ANALYTICAL CHEMISTRY. (1-6) *Credit 4.* Lecture-recitation: Theory and picture of sampling, solution of refractory materials, special methods of precipitation, use of radio active material, water analysis, special types of calculations.

Laboratory: Gravimetric and electrolytic separation (limestones and alloys) evolution methods, gas analysis, electrometric oxidation-reduction.

713. IDENTIFICATION OF ORGANIC COMPOUNDS. (Qual. Organic Analysis). The separation and identification of pure organic compounds and mixtures.

723. QUANTITATIVE ORGANIC CHEMISTRY. (1-4) *Credit 3.* The determination of elements and functional groups by Macro-methods with an introduction to micro-methods.

743. ADVANCED TOPICS IN ORGANIC CHEMISTRY. (3-0) (a) Stereochemistry; (b) Reaction Mechanisms; (c) Terpenes and Carbohydrates. 3 hours credit for each topic.

732. ADVANCED ORGANIC CHEMISTRY. (2-0) *Credit 2.* A short review of elementary organic chemistry with an extension of more advanced topics. Includes assigned current subject material.

752. INTERMEDIARY METABOLISM. (0-4) *Credit 2.* A laboratory course concerned with a quantitative study of the intermediates formed in cellular metabolism of fats, carbohydrates, proteins, and minerals employing equipment currently used in biochemical research. Both manometric and spectrometric methods are included. Prerequisite 434, or taken concurrently with 753.

753. INTERMEDIARY METABOLISM. (3-0) *Credit 3.* A lecture course concerned with the intermediates formed in the metabolism of fats, carbohydrates, proteins, minerals and nucleic acids and interrelationships between the metabolic pathways in both plants and animals. Such topics as: Enzyme-substrate substrate (Michaelis' Theory) energy relationships competitive inhibition, isotope technique, free radical nature of intermediates, enzyme kinetics, energy rich bonds, mesomeric concepts are included. Prerequisite 434 and 424.

762. ORGANIC SYNTHESIS. (1-4) *Credit 2.* Conferences and laboratory work dealing with the synthesis of various organic compounds. Prerequisite: one year of organic chemistry.

763. BIOCHEMICAL AND CLINICAL ANALYSIS. (0-6) *Credit 3.* Conferences and laboratory work dealing with analysis of blood, urine and vitamin assay. Prerequisite: Chemistry 435.

782. TOPICS IN THE CHEMISTRY OF NUTRITION. (2-0) *Credit 2.* Lectures, assigned readings on the most recent developments in research on vitamins, amino acids, proteins, minerals and hormones as related to human and animal nutrition. Prerequisite: Chemistry 435.

783. ADVANCED PHYSICAL CHEMISTRY. (3-0) *Credit 3.* A lecture course consisting of advance topics in physical chemistry; Thermodynamics, chemical kinetics, theories of solutions, phase rule. Prerequisite: Chemistry 424 and mathematics through differential and integral calculus.

802. ELECTROCHEMISTRY. (0-4) *Credit 2.* Conferences, assigned readings and exercises in the laboratory dealing with the fundamental theories of electrochemistry and fundamental theories of electrochemistry and the preparation of certain inorganic and organic compounds. Prerequisite: Chemistry 424.



600, 700, 800. RESEARCH. *Credit arranged.* Problems for investigation may be selected from one of the following fields of chemistry: 1. Analytical; 2. Biochemistry; 3. Inorganic Chemistry; 4. Organic Chemistry.

911 and 921. SEMINAR. (1-0) Discussion of topics which are current in the various fields of chemistry.

## ECONOMICS

The graduate courses in Economics permit intensive research and study of the integrated undergraduate courses in the various departments of the Social Sciences.

Among the specific objectives: development of ability to use available literature, facilities and techniques of investigating current socioeconomic problems; advancement of independent thought and writing necessary for further study, experimentation and living.

For course sequence or any other information consult the chairman of the department and the professor offering the course.

### ECONOMICS

513. ECONOMIC HISTORY OF THE UNITED STATES. (3-0) *Credit 3.* Development of agriculture, industry, commerce and transportation from colonial times to the present; problems involving the economic evolution in the United States. Prerequisite: Economics 213-223 (offered in alternate years).

533-523. PRINCIPLES OF ECONOMICS. (3-0) *Credit 3.* Thorough and critical consideration of economic problems and principles; post-war economy in the American Social Order.

543. SOCIAL AND LABOR LEGISLATION. (3-0) I or II. Protective legislation dealing with wages, hours, child labor, old age benefits with unemployment compensation.

563. ECONOMIC PROBLEMS OF THE CONSUMER. (3-0) *Credit 3.* Family budgets, marketing, price controls, and other problems of consumers.

573. LABOR PROBLEMS. (3-0) *Credit 3.* Evolution of industrial society; labor movement as a "going government"; protective legislation dealing with wages, hours, and unemployment compensation; problems involving the employer-employee relationships. Prerequisite: Economics 213-223.

593. POST-WAR ECONOMIC POLICIES. (3-0) *Credit 3.* Full employment, investment, foreign trade and finance, price control and fiscal policies.

702. THE NEGRO IN THE AMERICAN LABOR MOVEMENT. (2-2) *Credit 2.* American Trade Unionism with special reference to the role and status of Negroes in the labor union. Prerequisite: Basic courses in Economics and Sociology.

723. SEMINAR IN ECONOMIC THEORY. (3-0) *Credit 3.* Critical discussion of debatable topics in the field of economic theory, prices, value and distribution; reports will be made on recent or contemporary theories and theorists. Prerequisite: consent of instructor.

743. CAPITALISM AND SOCIALISM. (3-0) *Credit 3.* Capitalism, unionism, socialism, facism, and individualistic anti-capitalism, each viewed under the headings of conditions, theories and movements. A research course. Prerequisite: Economics 213 and Sociology 213.

773. ECONOMIC THEORY AND SOCIAL POLICY. (3-0) *Credit 3.* Analysis of economic theories involved in various institutional and government policies, especially those centering around farm control, education, housing, relief, protection of workers and consumers and social security.



## EDUCATION

*Minimum Requirements for a Master's Degree  
in the Department of Education*

The minimum undergraduate preparation for the Master's Degree is eighteen semester hours of basic course credit in the field of the graduate major. Those persons who plan to major in Elementary Education should include such basic courses as the following:

Elementary Art .....	3 hrs.
Public School Music .....	3 hrs.
Teaching of Reading .....	3 hrs.
Elementary Science .....	3 hrs.
Child Development and growth .....	3 hrs.

Attention is called to the requirements of the Texas Education Agency for the teaching certificate in the field of graduate concentratoion.

*Admission to Candidacy*

Action on admission to candidacy for a Master's Degree will be taken after the student (1) has been in residence for at least one semester or summer session, earning at least twelve hours of graduate course credit, (2) has maintained a "B" average or better; (3) has satisfactorily demonstrated proficiency in English usage and has satisfied all the classification requirements of the college.

The student failing to meet the above requirements will be continued on probation for a second semester. In the event he does not meet the requirements for candidacy at this time, it will be understood that no more graduate credit earned by him will be applicable to a Master's Degree.

*Suggested Curriculum for a Major in  
Elementary Education*

Child Growth and Development .....	3 hours
Teaching the Language Arts .....	3 hours
Evaluation of Modern Practices .....	3 hours
Diagnosis and Remedial Treatment of Elementary School Subjects .....	3 hours
Developing Elementary School Curriculum .....	3 hours
Problems of the Elementary Teacher .....	3 hours
Electives from the following:	

Arts and Crafts in Public School  
Audio-Visual Education  
Supervision of Elementary School Subjects  
Elementary School Administration  
Library Service Education  
Survey Course of Education for Special  
Handicapped Children  
Child Accounting  
Special Project in Public School Art

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 21 hours
*Suggested Curriculum for Administration  
and Supervision—Principal Major*

Child Growth and Development .....	3 hours
Supervision .....	3 hours
Curriculum and Methods .....	3 hours
School Community Relations .....	3 hours
Administration .....	9 hours

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 21 hours



*Suggested Curriculum for Administration  
and Supervision—Supervision Majors*

Child Growth and Development .....	3 hours
Administration .....	3 hours
Curriculum and Methods .....	3 hours
School Community Relations .....	3 hours
Supervision .....	9 hours
	<hr/> 21 hours

ADMINISTRATION AND SUPERVISION

513. VOCATIONAL GUIDANCE. (3-0) *Credit 3.* Open to all graduate students. Surveys required of all students. Vocational Guidance as a means of contributing to major objectives of secondary education; typical centers, movements, and programs as now carried on. Reading and reports.

523. ADMINISTRATION OF STUDENT PERSONNEL. (3-0) *Credit 3.* Open to students of senior and graduate standing. Common personnel problems of administrators and supervisors such as extra-curricular activities, guidance, student-faculty relationship; health; admissions; discipline; records and reports; etc.

533. HIGH SCHOOL ADMINISTRATION. (3-0) *Credit 3.* Work of the High School Principal; technique of organizing the high school program; history, objectives, and status of secondary education in the United States.

543. PRINCIPLES OF GUIDANCE. (3-0) *Credit 3.* Introductory course: survey of the field; emphasis on the Role of the Classroom Teacher in personnel work.

633. ELEMENTARY SCHOOL ADMINISTRATION. (3-0) *Credit 3.* Problems, organizations, administration and supervision of elementary schools.

643. SUPERVISION OF ELEMENTARY SCHOOL SUBJECTS. (3-0) *Credit 3.* The nature and philosophy of supervision, the need of supervision in elementary schools, the activities of supervisors, the promotion of teacher growth, and the appraisal of teaching efficiency.

713. FUNDAMENTALS OF SCHOOL ADMINISTRATION. (3-0) *Credit 3.* Open to graduate students who hold or are appointed to positions as principals, or supervisors, or who have consent of Director. History, principles, and practices in school administration; intensive study of problems (general and specific) involved in school administration.

723. RURAL SCHOOL SUPERVISION. (3-0) *Credit 3.* Principles underlying present-day supervision. Relationship of classroom teachers to supervisor, principal, and superintendent.

733. CHILD ACCOUNTING. (3-0) *Credit 3.* Principles and systems of child accounting. Courses, attendance, progress, achievement, classification, and guidance records and reports.

743. PRINCIPLES OF CURRICULUM BUILDING. (3-0) *Credit 3.* Open to graduate students who hold positions as principals or supervisors or who have consent of Director. Principles of curriculum construction in elementary and secondary education; investigates the sources of curriculum materials and methods of evaluation; some aspect study of the curriculum is required of all students desiring credit.



753. PRINCIPLES AND PRACTICES OF SUPERVISION. (3-0) *Credit 3.* Open to graduate students who hold or are appointed to supervisory or administrative positions, or who have consent of Director. Some practice in application of principles required of all. Principles, practices and problems of supervision. Special attention is given to organization for supervision, supervisory programs, research in supervision, cooperation of special agencies, and qualifications for supervisors.

763. PRINCIPLES OF RURAL SCHOOL ADMINISTRATION. (3-0) *Credit 3.* Open to graduate students holding administrative and supervisory position in rural areas. Principles, practices, and problems of school administration with emphasis upon problems of schools located in rural areas. Reports required of all.

773. THE HIGH SCHOOL PRINCIPAL AS A SUPERVISOR. (3-0) *Credit 3.* Improvement of instruction; evaluation of teaching procedures, selection and use of textbooks and other instructional material in elementary grades.

783. THE ELEMENTARY PRINCIPAL AS A SUPERVISOR. (3-0) *Credit 3.* Improvement of Instruction; Evaluation of Teaching Procedures; selection and use of text books and other instructional materials in elementary grades.

793. SUPERVISORS WORKSHOP. *Credit 3.* (Credit granted in areas of elementary and secondary education.)

#### ELEMENTARY EDUCATION

563. TEACHING OF ARITHMETIC IN ELEMENTARY GRADES. (3-0) *Credit 3.* A survey of current issues, including: teaching arithmetic through pupils' first hand experiences; the place of meaning, thinking; and drill in effective learning; the grade placement of topics in arithmetic; approved procedures in adapting instruction to pupils of varying ability.

633. TEACHING READING IN THE ELEMENTARY GRADES. (3-0) *Credit 3.* Special attention is given to the problem of when the child is ready to start learning to read, and the steps in beginning reading, techniques to be followed in developing the three additional stages of reading development, and how to make the pupil efficient in reading in general in school work.

653. ARTS AND CRAFTS IN PUBLIC SCHOOL. (3-0) *Credit 3.* Teaches prospective elementary teachers how to present art to children.

663. SPECIAL PROJECTS IN PUBLIC SCHOOL ART. (3-0) *Credit 3.* Methods, procedures and phases of teaching art; problems of art education and methods of teaching art.

683. ELEMENTARY SCHOOL CURRICULUM. (3-0) *Credit 3.* Study of important developments in elementary education with particular attention to methods and materials which may be used to improve the development of pupils in elementary schools. Problems which are encountered in day-to-day teaching situations receive much attention.

743. PROBLEMS OF THE ELEMENTARY TEACHER. (3-0) *Credit 3.* Open to undergraduates who are teachers in service and to graduate students. Special projects, investigations, and reports required; attention given to problems presented by members of the class as the outgrowth of their experiences.



753. TEACHING THE LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. (3-0) *Credit 3.* For those interested in guiding and directing children of elementary school age in reading and in oral and written composition: special emphasis placed on diagnosis and remedial work in reading.

763. TEACHING SOCIAL STUDIES IN THE ELEMENTARY GRADES. (3-0) *Credit 3.* Emphasis upon improving the social learning which grow out of the entire life of children both in and out of school. Selection and organization of content, learning activities, problem solving and social action skills, building social values and developing methods of unified and correlated social studies program.

773. TEACHING OF SCIENCE IN THE ELEMENTARY GRADES. (3-0) *Credit 3.* Emphasis is placed upon the principles, materials and methods of teaching science, and its influence upon the development of children, in the elementary grades. Laboratory work is designed to help the teacher develop a background of science understanding with suitable experiments, and suggestions for appropriate equipment and suitable materials for various age levels.

783. MODERN PRACTICES IN ELEMENTARY EDUCATION. (3-0) *Credit 3.* For in-service teachers.

793. DIAGNOSIS AND REMEDIAL TREATMENT OF ELEMENTARY SCHOOL SUBJECTS. (3-0) *Credit 3.* Techniques of diagnosis and remedial treatment of difficulties in the various elementary school subjects at all levels.

### *General Education*

500. MASTER'S ESSAY SEMINAR. *Non-credit.* Required of all candidates for Master of Education degree.

703. MODERN EDUCATION TENDENCIES. (3-0) *Credit 3.* Current educational doctrine and controversies; fundamental problems considered with a view to the development of an integrated outlook.

713. HISTORY OF EDUCATION IN AMERICA. (3-0) *Credit 3.* Historical background of America Education and an analysis of the origin and development of educational practices.

763. PROBLEMS IN THE EDUCATION OF NEGROES. (3-0) *Credit 3.* Special problems in the education of Negroes which result from segregation and discrimination; attention given to problems as adequacy of public education, equality of opportunities, the general status of Negro schools, educational facilities, etc.

843. TECHNIQUES IN EDUCATIONAL RESEARCH. (3-0) *Credit 3.* Study of research in education, the sources of information and techniques available, and approved form and style in preparation of research reports and theses.

### *PSYCHOLOGY*

523. PRINCIPLES AND PRACTICES OF EDUCATIONAL MEASUREMENT. (3-0) *Credit 3.* The place of tests and measurements in education; selection and construction of the most commonly used tests and measurements. Prerequisite: Education 433. See education 433 in undergraduate catalog.

563. MENTAL ADJUSTMENT. (3-0) *Credit 3.* Personality as an integrated force; psychology of the adjusted school child. Prerequisite: Psychology 103.

573. PSYCHOLOGY FOR STUDENTS OF EDUCATION. (3-0) *Credit 3.* See Education 383, of current catalog. General principles of human psychology as they relate to the learning process.



593. PUPIL GROWTH AND DEVELOPMENT. (3-0) *Credit 3.* A study of the growth and development of the individual. Emphasis on problems of inheritance, growth, learning, intelligence, emotion, and personality. Consideration given to fundamental psychological needs of the organism (in the growth cycle in infancy, childhood, adolescence and adulthood) and the conditions under which they may be realized. Applications to educational procedure, on home, school and community.

#### RURAL EDUCATION

743. THE RURAL ELEMENTARY CURRICULUM. (3-0) *Credit 3.* For rural school principals, supervisors and teachers specifically concerned with curriculum adaptations in rural elementary schools. The development of the curriculum in terms of environment, resources, and needs; and specifically adapted organization for school of one to four teachers; procedures for discovering environmental resources and needs and conditions in sample rural communities considered in their implications for selection and organization of curriculum materials.

713. SCHOOL AND COMMUNITY RELATIONS. (3-0) *Credit 3.* Place of education, the responsibility of the public school, the curriculum, the reorganization of the educational administrative structure, and the provisions of special educational services, as they relate to child and community needs and methods for their provision from the standpoint of the whole child and the community as a whole. The community centered school philosophy emphasized.

#### HEALTH EDUCATION

543. SAFETY EDUCATION. (3-0) *Credit 3.* Survey course in safety education; organization, administration, history and development, methods, materials and procedures in teaching safety on the various levels; aspects of safety with particular emphasis on driver education and training.

593. NUTRITIONAL ASPECTS OF HEALTH EDUCATION. (3-0) *Credit 3.* Essentials of an adequate diet; the food of persons of different ages; and the nutritive values of common food materials considered; special concern given regarding the relationship of nutrition and health education; materials from the various agencies, diet surveys and projects included in the course.

603. A SURVEY COURSE IN THE EDUCATION OF EXCEPTIONAL CHILDREN. (3-0) *Credit 3.* Foundations for Special Education set forth; its history, philosophy, policy, case studies, measurements and guidance, selection, organization and qualifications of teachers.

Brief consideration given the special classroom assistance for exceptional children with some knowledge of the various types of handicapped children.

623. METHODS IN HEALTH EDUCATION. (3-0) *Credit 3.* Methods and techniques of teaching health in elementary and secondary schools.

633. METHODS AND MATERIALS OF TEACHING HEALTH AND PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS. (3-0) *Credit 3.* Study of Fundamental play needs of children of elementary school level; ability to select appropriate equipment and the formation of tentative curriculum; sources of materials in the field.



643. THEORY AND PRACTICE IN RECREATIONAL AND CAMPING LEADERSHIP. (3-0) *Credit 3.* In addition to classroom work in the various aspects of Recreation and Camping Education, course deals with actual laboratory experiences in the development of such programs. These include the organization of camps, community centers, playgrounds and consider health and safety aspect, work experiences, social leadership activities and practice in the dance, games and sports skills.

723. COMMUNITY PLANNING FOR HEALTH. (3-0) *Credit 3.* Acquaints the prospective teacher of health education with the fundamentals, habits and knowledge necessary to healthful living; and an overview of prominent health problems in the school and community.

Special attention also given to progressive teaching methods and use of modern teaching aids in health education.

### SECONDARY EDUCATION

503. PRINCIPLES OF SECONDARY EDUCATION. (3-0) *Credit 3.* See general catalogue for course description, Education 313. Graduate Students will be required to develop term papers and give special reports. Prerequisite: Education 113, 333.

673. METHODS OF TEACHING SECONDARY SCHOOL SUBJECTS. (3-0) *Credit 3.* General methods treating the principles and practices of successful high school teaching.

### ENGLISH

*Admission:* For admission to graduate study in English a student should present at least an undergraduate minor, 21 hours, in this field. This undergraduate study should include at least three hours of credit above the sophomore level in each of the following: American Literature, Journalism, Shakespeare, Victorian Literature, Romantic Movement or a specialized course such as Chaucer, Byron, Wordsworth.

Any prerequisite courses such as The English Language (English 353), The Teaching of English: Education (English 463), which the student did not take while an undergraduate at this college, it is expected that he will register in these courses upon admission to the Department.

*Requirements for the Graduate Degree:* Requirements are stated in terms of minimum essentials. Students are urged to indicate some effort at enrichment of background by including in their program more than the minimum essentials. The following courses are required to fulfill the 20 credit hours required for a graduate major in English:

Course Number	Credit Hours
English 533 .....	3
English 583 .....	3
English 733 .....	3
English 773 .....	3
English 813 .....	3
English 803 .....	3
English 818 .....	3

Of the 12 credit hours required for the graduate minor in English the following courses are required:

Course Number	Credit Hours
English 733 .....	3
English 773 .....	3
English 813 .....	3
English 803 .....	3



## DESCRIPTION OF COURSES

## ENGLISH

533. NINETEENTH CENTURY PROSE. (3-0) *Credit 3.* Ideas, political and social conditions as revealed in the writings of chief representatives of the period.

583. THE NOVEL. (3-0) *Credit 3.* Relations between literature and social conditions as revealed in outstanding examples in the field in the novel.

733. SPEECH ARTS. (3-0) *Credit 3.* Practical work in speech construction, platform delivery, parliamentary procedure, and play production. The student should allow not less than three dollars for the purchase of practice material.

753. JOURNALISTIC WRITING AND PUBLICITY METHODS. (3-0) *Credit 3.* Practical work in the forms.

773. NEGRO LITERATURE. (3-0) *Credit 3.* Works of Negro writers of prose, poetry, and drama from colonial slavery times to the present day; their interpretations of Negro people; sociological implications and influence on American life and literature; contemporary works by and about Negroes; books, reviews, and studies in current periodicals. Prerequisite: American Literature.

803. BIBLIOGRAPHY AND METHODS OF RESEARCH. (3-0) *Credit 3.* Exercises in minor research projects.

813. LITERARY CRITICISM. (3-0) *Credit 3.* Wide reading including translations from "classical" literature; practice in reading aloud.

813. SEMINAR IN THESIS WRITING. (3-0) *Credit 3.* Open only to candidates who are now working on their thesis in English.

## HISTORY

Majors and minors are offered in the Department of History, Philosophy and Political Science. Students desiring to major in either History or Political Science should consult with the Head of the Department and plan a program in conjunction with the Major Professor.

All students are required to take a course in Research. Majors in History should register for History 563 and majors in Political Science for Political Science 563.

Arrangements should be made to take this course as early as possible after the commencement of the work for the Master's Degree.

The offerings in History on the graduate level have been divided into three fields: (1) European History; (2) American History; (3) Training and Special Courses in History.

Twenty hours of satisfactory work is required for a major in the field of History, and ten hours for the minor. The satisfactory completion of a thesis, the subject of which to be determined in consultation with the major professor, is required of all persons graduating with a major in this field. Minors in this field are allowable only if the candidate can demonstrate that the techniques in this field are necessary for his research project or that the minor field is reasonably associated with the major specialty in content and orientation.



Prerequisites for majoring or minoring in the field of History are:  
 (a) Lower college courses in American and European History corresponding to the lower college offering in the field at Prairie View. (b) At least an advance course in either modern and/or contemporary European or American History. (c) A cumulative average of "B" in their social science courses on the undergraduate level. (d) Preliminary to the graduate regulation on candidacy for the degree, no person shall be acceptable for pre-candidacy status if at the end of the first semester he has not shown the proper inclination to master the skills and attitudes attendant upon graduate study.

#### MASTER OF ARTS IN HISTORY WITH AMERICAN ORIENTATION

Course	Hours	Course	Hours
History 533 or 543—England, 1485 to the present .....	3	History 623—Problems in Latin American History .....	3
History 553—Europe, 1914 to the present .....	3	History 663—Great American Historians (elective) .....	
History 563—Historical Methods .....	3	History 613—American Revolution and the Constitution (elective) .....	
History 693—The New South, 1865 to the present .....	3	History 633 or 643—American Foreign Relations, 1775 to the present (elective) .....	
History 653—Contemporary U. S. History, 1898 to present .....	3		

#### MASTER OF ARTS IN HISTORY WITH EUROPEAN ORIENTATION

Course	Hours	Course	Hours
History 533 or 543—England, 1485 to the present .....	3	History 623—Problems in Latin American History .....	3
History 553—Europe, 1914 to the present .....	3	History 563—Historical Methods .....	3
History 733—History of the Far East .....	3	History 633 or 643—American Foreign Relations, 1775 to the present (elective) .....	
History 523—Imperialism .....	3	History 653—Contemporary U. S. History, 1898 to present (elective) .....	
History 513—French Revolution and Napoleon (elective) .....			

Students seeking a Master's Degree in History should present well chosen courses from these fields and pursue further work in one field or a combination of fields in consultation with the Professor of History.

#### I. EUROPEAN HISTORY

513. FRENCH REVOLUTION AND NAPOLEON. (3-0) *Credit 3.* Causes of the revolution; reforms and discipline by Napoleon.

523. IMPERIALISM. (3-0) *Credit 3.* Era of Imperialism; causes, results and techniques.

533 and 543. ENGLAND, 1485 TO THE PRESENT. (3-0) *Credit 3.* I. Development of Britain in Modern historical development; Tudors and the Reformation; the Stuarts and Parliament; English expansion under Parliamentary rule; the Era of Reform and Empire; the Empire and World War I, Britain between the Wars; the Fight for Survival—Global War. Lectures, Discussions, Special Reports. Offered in odd years.

553. EUROPE, 1914 TO THE PRESENT. (3-0) *Credit 3.* I. 20th Century European development in its World setting; the background and causes of World War I; the War itself; the Versailles settlement and Post War efforts at Political, Economic and Social Security, collectively and nationally; the ideological clash between democracy and totalitarianism which led to Global War and the Atomic Age—from the subject matter of the course. Lectures, discussions, special reports. Offered in odd years.

\*Also thesis on some problems connected with this course offering.  
 Twenty hours required.



663. GREAT AMERICAN HISTORIANS. (3-0) *Credit 3.* Survey of the writers of American History; their sociological, economic and political motivations.

## II. AMERICAN HISTORY

613. AMERICAN REVOLUTION AND THE CONSTITUTION. (3-0) *Credit 3.* Revolutionary philosophy; declaration of independence; union and drafting the constitution.

633 and 643. AMERICAN FOREIGN RELATIONS, 1775 TO THE PRESENT. (3-0) *Credit 3.* I and II. The United States in its relations with Latin-America and the rest of the world; public opinion and the economic, social and political forces that have determined American foreign policy and the agencies through which that policy has been executed. May be taken as Political Science 533 and 543.

653. CONTEMPORARY UNITED STATES HISTORY, 1898 TO THE PRESENT. (3-0) or (2-0) *Credit 3 or 2.* II. 20th Century American development thus: America comes of age; the quest for Social Justice; the Great Crusade (World War I); Post War Normalcy and Reaction; Democracy in Transition—the New Deal; and American Leadership in the “United Nations.” Lectures, Discussions, special reports.

663. ECONOMIC HISTORY OF THE UNITED STATES. (3-0) *Credit 3. I.* Historical review of the development of agriculture, commerce, industry, and business from colonial times to the present; social and economic forces in American society with attention to various mass movements; industrialization of the country and the necessity for governmental regulations; historical interpretation of trade unions, employer's associations, cooperatives.

673. ECONOMIC HISTORY OF THE SOUTH. (3-0) *Credit 3. II.* The agricultural and industrial development of the South; the industrialization of the Southwest; field trips, contact with state Historical Societies to obtain documents, and preparation for the writing and publication of materials.

683. SECTIONALISM AND CIVIL WAR, 1700-1865. (3-0) *Credit 3. I.* Regional Hypothesis; Socio-economic Regionalism; Government, Politics, and the Regional Compromise in the Middle Period; Ideas in Embroglio—Issues and Men; Reconstruction and the New Nation. Lectures, Discussions, Special reports.

693. THE NEW SOUTH, 1865 TO THE PRESENT. (3-0) *Credit 3. II.* Relation of the South to National development since 1860; the Death of the Old South; Reconstruction and the New Nation; the “Due Departure” 1876-1900; Southern strivings to follow National Patterns, 1900-1932; the New Deal and the New South. Lectures, Discussions, Readings, Special Reports.

## III. TRAINING AND SPECIAL COURSES

503. TECHNIQUES OF TEACHING HISTORY. (3-0) *Credit 3.* Testing devices; visual aids; historical methods.

563. A SURVEY OF THE CRITICAL ATTITUDE AND TOOLS OF SCIENTIFIC HISTORY. (3-0) *Credit 3.* I or II. History and its relation to the Social Sciences; the Subject and the Collection and Classification of Sources; the criticism of Data; Exposition or the presentation of historical evidence; and sources and techniques of political science research, lectures, laboratory exercises, special reports. Offered as Sociology 563, Social Research. History majors register for History 563.



572. HISTORICAL INVESTIGATIVE PAPER. (2-0) *Credit 2.* I and II. Credit allowed upon satisfactory completion of required thesis.

733. HISTORY OF THE FAR EAST. (3-0) *Credit 3.* Political institutions of China, Japan and other Far Eastern Countries.

603. WESTERN AMERICAN HISTORY. (3-0) *Credit 3.* II. Seminar in the exploration, settlement and development of the region western side of the Mississippi; designed to discover and preserve materials on the early Spanish, French, African and Anglo-Saxon explorations and the contributions of the immigrants who made their homes in the Western region later.

623. PROBLEMS IN LATIN-AMERICAN HISTORY. (3-0) *Credit 3.* I. Geography and resources of the Latin-American countries; cultural traits of the population; description of the social, political and economic institutions. History of the relations between the United States and Latin-American countries.

## MATHEMATICS

713. ADVANCED CALCULUS (3-0) *Credit 3.* Advanced topics of the calculus; differential equations. Prerequisites: Differential and Integral Calculus.

723. ANALYTIC MECHANICS. (3-0) *Credit 3.* Statics, the study of equilibrium and dynamics, motion of particles, of rigid bodies, and simple cases of formable bodies under action of forces. Prerequisites: Differential and integral Calculus.

733. ADVANCED ALGEBRA. (3-0) *Credit 3.* Topics not taken up in the elementary course of college Algebra; inequalities, theory of probability, summation of series, etc. Prerequisite: College Algebra.

743. STATISTICS. (3-0) *Credit 3.* Processes of statistical methods with reference to applications in various fields. Prerequisite: Analytic Geometry.

753. THEORY OF EQUATIONS. (3-0) *Credit 3.* Complex numbers, general calculations of the cubic and biquadratic, and Horner's and Newton's method. Prerequisite: Differential and Integral Calculus.

763. DIFFERENTIAL EQUATIONS. (3-0) *Credit 3.* Methods of solving type forms and the formulation of practical problems as solutions of differential equations. Prerequisites: Differential and Integral Calculus.

773. PROJECTIVE GEOMETRY. (3-0) *Credit 3.* Fundamental forms; harmonic sets, perspectivity and projectivity of forms, duality involution. Prerequisite: the calculus.

783. DIFFERENTIAL GEOMETRY. (3-0) *Credit 3.* Curves in the plane and in space, and of surfaces; introduction to the study of curved spaces. Prerequisites: Calculus and Solid Analytic Geometry.

793. INFINITE SERIES. (3-0) *Credit 3.* The convergence and divergence of sequences, and series; simple, absolute, and uniform convergence; summable series. Prerequisites: Differential and Integral Calculus.

803. NUMERICAL AND LITERAL SOLUTIONS OF EQUATIONS. (3-0) *Credit 3.* The methods of solving linear, simultaneous, quadratic, cubic, quartic, transcendental, and algebraic equations of higher degrees than the fourth for real roots, as well as methods for complex roots. Prerequisites: Theory of Equations on consultation with the Head of the Department,



## MUSIC

The College offers courses leading to the degree of Master of Arts with a major in Music. This degree is open to persons holding a Bachelor of Music or Bachelor of Science or Arts with concentration in music from an institution of recognized standing. These degrees presented as entrance requirements in the graduate department must represent an amount of work equivalent to that prescribed in the School of Arts and Sciences at Prairie View A. & M. College.

Candidates for the master's degree may major in theory, piano, voice or music education.

## MUSIC EDUCATION

## Requirements:

*12 to 15 Hours—30 in all subjects*

12 to 15 hours—30 hours in all subjects

## 1. Courses in the field:

Courses in general education or psychology; or English Literature, Language or History as well as the music courses.

Thesis: A written literary work involving original research.

## 2. Applied Music (6 hours minimum)

Continuation of one's applied instrument.

## 3. Minor Cognates: Any one:—

Aural Theory

Written Theory

Music Literature

Any non-musical field of study for which the student has the requisite preparation in his bachelor's degree.

*Twelve to fifteen hours. (30 hours in all subjects)*

683. THE TEACHING OF MUSIC LITERATURE. (3-0) *Credit 3.* The problems involved in the presentation of music appreciation to high school students.

773. PROBLEMS IN TEACHING SIGHT-SINGING AND EAR TRAINING. (3-0) *Credit 3.* Students must audit first-year courses and engage in practice teaching plus one hour of theory and one hour of lecture.

863. TESTS AND MEASUREMENTS IN MUSIC EDUCATION. (3-0) *Credit 3.* Procedures, criticisms, and evaluation of the most prominent sensory motor, feeling and achievements in music.

873. TEACHING OF VOCAL MUSIC IN THE HIGH SCHOOL. (3-0) *Credit 3.* Organizations and administration of (a capella) choirs, boys' chorus or glee clubs, girls' chorus or glee clubs, and voice training classes.

883. THESIS. A written literary work involving original research.

893. THE TEACHING OF INSTRUMENTAL MUSIC IN THE HIGH SCHOOL. (3-0) *Credit 3.* The organization and administration of bands and orchestras in the junior and senior high school.

973. SEMINAR IN MUSIC EDUCATION. (3-0) *Credit 3.* Current philosophy of education in this country; the place of music in the curriculum; review and criticism of music curricula, and evaluation of materials and methods of the various types of music schools existing in America. Special study of some problems associated with that aspect of music teaching in which interested.



983. RESEARCH IN MUSIC EDUCATION. (3-0) *Credit 3.* Independent investigations under supervision, leading to a thesis. (In certain cases a laboratory problem in the psychology of music may be submitted as a thesis).

993. THE PSYCHOLOGY OF MUSIC. (3-0) *Credit 3.* Materials from the science of psychology; current psychological tests and measurements in music; review of the experimental laboratory work on factors which make up the musical mind.

### THEORY

#### Requirements:

*12 to 15 hours—30 hours total for degree*

1. Thesis: A written literary work involving original research, or an arrangement of a work, or an original work for full symphony orchestra.
2. Student must include 953, 783 and 793 or 763.
3. Applied Music: (6 hours)  
Continuation of one's applied instrument
4. Minor cognate: Any one:—  
School Music  
Applied Music  
Music Literature  
Any non-musical field of study for which the student has the requisite preparation in his bachelor's degree.

*Twelve to fifteen hours (30 hours total in all subjects)*

653. ADVANCED SCORE READING. (3-0) *Credit 3.* Transpositions and various clefs for instruments and voices; ranges of instruments; introduction to the playing of vocal and instrumental scores since the 16th century; practice in sight reading and studying such scores.

673. DICTATION AND SIGHT-SINGING. (3-0) *Credit 3.* Advanced courses in aural theory.

693. ANALYSIS OF FORM. (3-0) *Credit 3.* Practical analysis of intermediate and larger forms, eighteenth and nineteenth century harmony as illustrated in the works of Haydn, Mozart, Beethoven, Brahms, Franck, etc.

763. ADVANCED ORCHESTRATION. (3-0) *Credit 3.* Scoring for full symphony orchestra.

783. CONTRAPUNTAL AND CHROMATIC DICTATION. (3-0) *Credit 3.* Dictation and two and three-part counterpoint, and four-part chromatic harmony.

793. CHROMATIC AND MODERN HARMONY. (3-0) *Credit 3.* Harmonic materials and technique from creative and analytical angles; harmonic idiom on the period from the late nineteenth century to the present.

833. ADVANCED ORCHESTRAL CONDUCTING. (3-0) *Credit 3.* Conducting from chamber music and classical symphonic scores; conducting from Romantic and Modern scores. Examination of school music and classical symphonic scores. Examination of school music materials. Interpretation of the larger forms of instrumental music.



883. **THESIS. Credit 3.** A written literary work involving original research or an arrangement of a work, or an original for full symphony orchestra.

953. **ADVANCED ANALYTICAL HARMONY. (3-0) Credit 3.** Harmonic analysis of Chorales of Bach; piano sonatas of Beethoven, violin sonatas of Brahms, and symphonic works of Mozart, Beethoven, Wagner and Franck.

## PIANO

### Requirements:

Undergraduate recital already given.

1. Three complete concertos
2. Material for two programs
3. Public performance of a concerto; chamber ensemble, and one recital program.

Four hours of daily practice; two one-hour lessons, one hour studio class each week; if possible, three hours each semester

*12 to 15 hours credit required (In Piano alone, 30 hours total for degree)*

**MUSIC 613—Credit 3.** Three concertos of contrasting type (Mozart, Beethoven, Brahms, Schumann, Chopin, Liszt, Tchaikowsky, Rachmaninoff, etc.)

**MUSIC 623—Credit 3.** Sufficient material for two programs including three of four major compositions of the classical and romantic school. These programs should also include a varied selection of the representative modern compositions.

Bach—Italian Concerto, toccatos, transcription by Tausig, Busoni, Liszt, etc., Chromatic Fantasy and Fugue.

Beethoven—A sonata of the grade of difficulty of Op. 53, 57, 109, 110, 111, or Chopin Sonata, and an earlier sonata; or one of Mozart, or a modern one.

Romantic Composers—Schumann—(Etudes Symphoniques); Franck—(Prel., Choral and Fugue) Brahms-Handel—(Variations and Fugue); Liszt—(Sonata, etc.).

Modern Composers—Debussy, Ravel, Scriabin, etc., Contemporary Moderns including American Composers.

**MUSIC 713—Credit 3.** Must give a public recital of a concerto in its entirety; some ensemble (Chamber, if possible), and a complete piano program.

**MUSIC 723—Credit 3.** Must have two sequences in minor cognates as: Aural Theory, Written Theory, Music Literature, Music Education or non music subjects for which the student has adequate preparation. Also if desired, applied music other than piano.

## VOICE

### Requirements:

Undergraduate recital already given.

1. Two complete roles appropriate to the voice
2. Two complete oratorio roles.
3. Public performance with orchestra (an aria); one recital (artist's).

Three hours of daily practice. 2 one-hour lessons; one hour studio class if possible each week. 3 hours credit each semester.

*12 to 15 hours credit required in voice alone (30 hours total for degree)*



MUSIC 633—*Credit 3*. A minimum of 6 songs in each of the four languages (in addition to the undergraduate degree)—English, French, German, and Italian.

MUSIC 643—*Credit 3*. Four arias (Languages not specified).

753. THE TEACHING OF VOCAL AND INSTRUMENTAL MUSIC IN THE ELEMENTARY SCHOOL. (3-0) *Credit 3*. The organization and administration of rhythm bands and small instrumental groups in the elementary school.

## DEPARTMENT OF PHYSICAL EDUCATION AND HEALTH

### REQUIREMENTS FOR MASTER OF SCIENCE DEGREE IN PHYSICAL EDUCATION

Students without undergraduate major or minor in Physical Education will be required to complete additional courses designed to give them competence in the areas of subject matter that are basic to this field. A demonstration of skill in teaching a wide variety of Physical Education activities is required. Courses listed below are prerequisite courses:

#### I. BASIC SCIENCE:

##### A. Minimum

1. Zoology (or its equivalent)
2. Anatomy
3. Physiology

#### II. HEALTH EDUCATION COURSES:

##### A. Minimum (choice of two)

1. Personal Hygiene
2. Principles of Health Education
3. Methods of Health Education
4. Health Education

#### III. TECHNICAL TRAINING IN PHYSICAL EDUCATION

##### A. Minimum 12 hours and 2 semesters of practice

- |                                                          |             |
|----------------------------------------------------------|-------------|
| 1. Physical Education Practice .....                     | 2 semesters |
| 2. Introduction to Physical Education .....              | 3 hours     |
| 3. History and Principles of<br>Physical Education ..... | 3 hours     |
| 4. Organization and Administration<br>of P. E. ....      | 3 hours     |
| 5. Methods and Materials in<br>Physical Education .....  | 3 hours     |

Students with an undergraduate major or its equivalent, requirements for Master of Science degree in Physical Education:

#### I. BASIC SCIENCE

##### A. Minimum: 6 hours

- |                                          |         |
|------------------------------------------|---------|
| 1. Physiology of Muscular exercise ..... | 3 hours |
| 2. Kinesiology .....                     | 3 hours |

#### II. HEALTH EDUCATION COURSES

##### A. Minimum 3 hours

- |                                                             |         |
|-------------------------------------------------------------|---------|
| 1. Methods in Health Education<br>(Or its equivalent) ..... | 3 hours |
|-------------------------------------------------------------|---------|



### III. TECHNICAL TRAINING IN PHYSICAL EDUCATION

#### A. Minimum 12 hours

1. Playground and Community Recreation ..... 3 hours
2. Administrative Problems in Physical Education ..... 3 hours
3. Intramural Athletics ..... 3 hours
4. Tests and Measurements in Physical Education ..... 3 hours
5. Organization and Administration of High School Athletics ..... 3 hours

#### MINOR IN PHYSICAL EDUCATION

Students without an undergraduate major or minor in Physical Education will be required to complete additional courses. Listed below are prerequisite courses to a minor in Physical Education.

#### I. BASIC SCIENCE

##### A. Minimum 8 hours

1. Zoology (Or its equivalent) ..... 4 hours
2. Anatomy and Physiology ..... 4 hours

#### II. HEALTH EDUCATION COURSES

##### Minimum: (Choice of one) ..... 3 hours

1. Personal Hygiene ..... 3 hours
2. Methods of Health Education ..... 3 hours

### III. TECHNICAL TRAINING IN PHYSICAL EDUCATION

#### A. Minimum: 10 hours

1. Physical Education Practice ..... 4 hours
2. Introduction to P. E. ..... 3 hours
3. Methods and Materials of Teaching P. E. .... 3 hours

Students who have satisfied the above requirements may minor in Physical Education by following the schedule below:

#### I. HEALTH EDUCATION COURSES

##### A. Minimum: Choice of one (3 sem. hrs.)

1. Principles of Health Education ..... 3 hours
2. Methods of Health Education ..... 3 hours

#### II. TECHNICAL TRAINING IN PHYSICAL EDUCATION

##### A. Minimum: (Choice of three) (9 sem. hrs.)

1. Organization and Adm. of P. E. .... 3 hours  
(or) Organization and Adm. of High School Athletics
2. Methods and Materials in Physical Education  
(or) Methods and Materials in Elem. Schools... 3 hours
3. Intramural Athletics ..... 3 hours  
(or) Playground and Community Recreation



### PHYSICAL AND HEALTH EDUCATION

Prerequisites for a graduate major will ordinarily consist of not less than 20 semester hours of undergraduate credits in the chosen field or in some related field. A graduate minor will ordinarily be based upon not less than 12 semester hours of undergraduate work.

If the transcript of the undergraduate record of a student does not meet the above qualifications, additional satisfactory undergraduate work will be required before the student is admitted to graduate status.

It should be clearly understood that admission to the graduate school does not imply admission to candidacy for a degree.

Courses for which graduate credit may be obtained are numbered above 500. Courses numbered from 300 to 499 are for graduates and undergraduates.

Twenty semester hours of work in Physical Education Theory are required for a major, and ten hours of work for a minor.

Courses in Health Education have been listed under education.

### COURSES

613. INDIVIDUAL PHYSICAL EDUCATION. (3-0) *Credit 3.* I or II. Making a Physical Education program meet the needs of handicapped individuals; fundamental principles in the selection and adaption of activities in corrective procedure; abnormal physical conditions that come to the care or attention of the physical director; lectures, recitations, demonstrations, reports. Prerequisites: Physical Education 314 and 324.

623. PHYSIOLOGY AND EXERCISES. (3-0) *Credit 3.* I or II. Effects of physical education activities on the individual; general affects of exercise upon bodily functions and affects of special types of exercise upon bodily functions.

633. METHODS AND MATERIALS OF TEACHING HEALTH AND PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS. (3-0) *Credit 3.* Study of fundamental play needs of children of elementary school level; selection of appropriate equipment and the formation of tentative curriculum.

663. ADVANCED COURSE IN COACHING. (3-0) *Credit 3.* I or II. All phases of team play in football, basketball, track and field athletics; coaching problems.

643. CONDITIONING OF ATHLETES AND CARE OF INJURIES. (3-0) *Credit 3.* I or II. Conditioning athletes for the various sports; a practical course in First Aid and the care of injuries in the athletic program.

653. ADMINISTRATIVE PROBLEM IN PHYSICAL EDUCATION. (3-0) *Credit 3.* I or II. Coordination of the different phases of the program; administrative problems of physical education intramural and inter-collegiate athletics.

663. ADVANCED PERSONAL AND COMMUNITY HYGIENE. (3-0) *Credit 3.* I or II. Survey of significant facts related to hygiene and physiology as they bear upon personal and community life; health agencies which function in community living.

672. HISTORY AND SURVEY OF THE DANCE. (2-0) *Credit 2.* I or II. Materials and methods in all phases of the dance.

683. TUMBLING PRYAMIDS AND STUNTS. (3-0) *Credit 3.* I. Open to both men and women; tumbling, pyramids, and stunts in line with the ability of the class; advance work as the progress of the class permits.



693. METHODS AND MATERIALS OF TEACHING PHYSICAL EDUCATION IN HIGH SCHOOL AND COLLEGE. (3-0) *Credit 3.* II. Selection and presentation of material for activities; methods, organization, and teaching techniques.

### REQUIREMENTS FOR A MINOR IN HEALTH EDUCATION

Prerequisites to a minor in Health Education

#### I. BASIC SCIENCE

A. Minimum: 4 hours

- |                                |         |
|--------------------------------|---------|
| 1. Zoology (or its equivalent) | 4 hours |
|--------------------------------|---------|

#### II. TECHNICAL TRAINING IN HEALTH EDUCATION

A. Minimum: 6 hours

- |                      |         |
|----------------------|---------|
| 1. Personal Hygiene  | 3 hours |
| 2. Health Education  | 3 hours |
| (or, its equivalent) |         |

Students who have satisfied the above requirements may minor in Health Education by following the schedule below:

#### I. TECHNICAL TRAINING IN HEALTH EDUCATION

A. Minimum: 12 hours

- |                                              |         |
|----------------------------------------------|---------|
| 1. Public School and Community Hygiene       | 3 hours |
| 2. Principles of Health Education            | 3 hours |
| 3. Methods and Materials in Health Education | 3 hours |
| 4. Driver Education and Training             |         |
| (or its equivalent)                          | 3 hours |
| 5. Mental Hygiene (Psychology)               | 3 hours |

### POLITICAL SCIENCE

Students entering upon their graduate studies concentrating in Political Science must elect Political Science 563 the first semester of residence and also at least one seminar in Political Science in which the student must write an acceptable investigative paper showing the mastery of writing technique and scholarly proficiency.

Prerequisites for a major in Political Science are: (1) an undergraduate major in Political Science, 30 semester hours of credit; or (2) undergraduate minor in Political Science, 18 semester hours; or (3) a major in Social Science with six semester hours in American Government. Those students who had an undergraduate major in Political Science may elect at least twenty semester hours in Political Science from four of the six fields listed below. Those who present a minor in Political Science will be required to elect 24 semester hours in four of the six fields required. Social Science majors will be required to present 24 semester hours in six fields of concentration. All other students desiring to major in Political Science will be required to complete thirty semester hours in the six fields of concentration as listed in the suggested program below.

Majors in Political Science are required to select courses from the following six fields of concentration: (1) American Government; (2) Foreign Governments; (3) Political Parties; (4) Methodology and Theory; (5) Public Administration; and (6) International Law and Relations. Programs of study should be outlined in consultation with the Professor of Political Science.



## SUGGESTED PROGRAM FOR MAJOR IN POLITICAL SCIENCE

## FOR THE MASTER'S DEGREE

Course	Hours
1. American Government	
Pol Sci 603 and 633, Constitutional Law .....	6
2. Foreign Governments	
Pol Sci 503, International Organization .....	3
Pol Sci 733, Far East .....	3
3. Political Parties	
Pol Sci 723, Political Parties and Election Problems .....	3
4. Methodology and Theory	
Pol Sci 703, Political Theory .....	3
Pol Sci 563, Bibliography and Methods of Research .....	3
5. Public Administration	
Pol Sci 573, Public Administration .....	3
6. International Law and Relations	
Pol Sci 533 and 543, American Foreign Relations .....	6
	<hr/>
	30

*I. American Government*

513. AMERICAN LOCAL RURAL GOVERNMENT. (3-0) *Credit 3. II.* Governmental organization and functions of counties, townships and villages; rural government and school boards in Texas.

523. MUNICIPAL ADMINISTRATION. (3-0) *Credit 3. II.* Municipal government and the administrative problems involved in American cities.

*II. Political Parties*

723. SEMINAR IN POLITICAL PARTIES AND ELECTION PROBLEMS. (3-0) *Credit 3. II.* Selected election problems in the Southwest; Negro suffrage and voting participation in Texas.

*III. Foreign Government*

503. SEMINAR IN INTERNATIONAL ORGANIZATION. (3-0) *Credit 3. I or II.* Description and evaluation of agencies and procedures of international cooperation devised by states during the past 100 years; emphasis on the period since World War I.

733. SEMINAR IN GOVERNMENT AND POLITICS OF THE FAR EAST. (3-0) *Credit 3. I or II.* Political institutions in China, Japan and other Far Eastern Countries.

*IV. Methodology and Theory*

703. SEMINAR IN POLITICAL THEORY. (3-0) *Credit 2 or 3.* History of political thought from the days of Ancient Greece to the present.

563. BIBLIOGRAPHY AND METHODS OF RESEARCH. (3-0) *Credit 3.* Bibliographies; studies in the use of public documents and other sources of materials; investigation and reports on special research problems. This course is required of all majors in Political Science and is offered as Sociology 563. Political Science majors register for Political Science 563.

*V. Public Administration*

563. SOCIAL LEGISLATION. (3-0) *Credit 3.* Federal and state laws; administration of these laws; degrees of social security.

633 and 603. AMERICAN CONSTITUTIONAL LAW. (3-0) *Credit 3. I and II.* Principles of American constitutional law; political theories and national development.



563. SEMINAR IN PUBLIC ADMINISTRATION. (3-0) *Credit 3. II.* The American administrative system; and common problems underlying branches of administration; lectures, individual and group reports on some aspect of Texas Administration. Each member of the class will be required to make a written term report on some phase of public administration.

### VI. International Law and Relations

743. SEMINAR IN COMPARATIVE GOVERNMENT AND ADMINISTRATION. (3-0) *Credit 3. II.* British political institutions; contemporary government forms and functions in Europe and America; political theories and philosophies.

713. SEMINAR IN COLONIAL GOVERNMENT AND PROBLEMS OF IMPERIALISM. (3-0) *Credit 3.* The historical imperial system; colonial governments and the problems of imperialism today.

503. SEMINAR IN INTERNATIONAL ORGANIZATION. (3-0) *Credit 3.* Agencies and procedures of international cooperation during the past 100 years with emphasis on the period since World War I.

533 and 543. AMERICAN FOREIGN RELATIONS, 1775 TO THE PRESENT (3-0) *Credit 3. I and II.* The United States in its relation with the world; public opinion, the economic, social and political forces that have determined American foreign policy; and agencies through which policy has been executed.

613 and 623. PUBLIC INTERNATIONAL LAW. (3-0) *Credit 3. I and II.* The law of the international community; historic developments.

### SOCIOLOGY

Students seeking a Master's degree in Sociology should consider the following objectives and requirements:

1. A development of knowledge sufficient to make community surveys necessary for the formulation of programs of community organization.
2. A development of interest and ability of the student in the field of scientific sociology.
3. The development of an appreciation of and ability to interpret native and folk culture of the Nation and the Southwest.
4. The development of the ability to interpret mass behavior so as to make such interpretation functional in leadership.

### REQUIREMENTS

Students who major in Sociology must present a minimum of 9 semester hours in undergraduate Sociology with substantial credits in History, Political Science or Economics. Students who have had fewer than 18 hours will be required to complete additional undergraduate hours in Sociology before receiving a Master's Degree.

Students who minor in Sociology should present a minimum of 9 undergraduate hours in any of the Social Sciences.



403. INTRODUCTION TO SOCIAL CASE WORK. (3-0) *Credit 3.* I and II. Presents the point of view of the social case worker regarding human relationships, and appreciation of needs and problems causing individuals to seek help of social agencies and some understanding of the basic process of social case work practice; broad cultural as well as practical value to students going into social work, teaching (especially visiting teaching), medicine, and related professions.

423. INTRODUCTION TO SOCIAL GROUP WORK. (3-0) *Credit 3.* I or II. Fundamentals of professional group work. Deals specifically with group process and behavior, interpersonal relations, the contribution of allied fields, leadership, program, and agencies as a background for employment, in-service training, or professional education.

503. INTRODUCTION TO SOCIAL WELFARE. (3-0) *Credit 3.* I or II. Historical development of social work; fields of specialization; functions of agencies; job opportunities; and contributions of outstanding leaders. Prerequisites: Nine hours of sociology.

513. SOCIAL THEORY. (3-0) *Credit 3.* I. Historical development of theories of social science; the process by which sociology and the various social sciences came into systematic bodies of knowledge. Prerequisites: Twelve hours of sociology.

523. JUVENILE DELINQUENCY. (3-0) *Credit 3.* II. Nature, extent, and conditions giving rise to juvenile delinquency; outstanding literature surveyed; programs treating delinquency discussed. Prerequisite: Six hours of Sociology including Criminology.

533. INTRODUCTION TO THE FIELD OF SOCIAL WORK. (3-0) *Credit 3.* I or II. An Orientation Course in the history and field of Social Work. Case work, group work, and social welfare planning as well as professional organization are considered. Required for majors and minors in Social Service.

543. URBAN SOCIOLOGY. (3-0) *Credit 3.* I. Considers the city and its hinterland as a sociological entity; urban neighborhoods, population groupings and movements, social processes, trends, and problems are treated in the light of historical, ecological and social factors.

563. SOCIAL RESEARCH. (3-0) *Credit 3.* II. A study of the various methods of social investigation, such as the social survey, the case study methods, historical, statistical and ecological techniques. Emphasis is placed on the collection, analysis and interpretation of different types of information in connection with special problems of social research. Students are required to complete an individual piece of social investigation.

573. SOCIAL STATISTICS. (3-0) *Credit 3.* II. Techniques of calculating values common to statistical analysis; simple measures of central tendencies through correlation and regression; speed and accuracy on calculating machine emphasized.

583. ANTHROPOLOGY. (3-0) *Credit 3.* I or II. A study of the origin and development of human culture. Special emphasis is placed upon schools of culture and contemporary culture. Prerequisites: Nine hours of Sociology.



593. SOCIOLOGY SEMINAR. (0-3) *Credit 3.* I or II. For seniors and graduate students desiring to do independent research or study in fields not covered by current offerings. A staff member supervises the work of each student.

603. PROBLEMS OF CHILD WELFARE. (3-0) *Credit 3.* I or II. A study of child welfare movements and of contemporary children's agencies and their services. Includes programs for improving the home and for substitute care, safeguarding health, employment protection, delinquency prevention, and other needs of children and youth.

643. MODERN SOCIAL PROBLEMS. (3-0) *Credit 3.* II. Analysis of processes of personal, family and community disorganization, methods and measures of social reform. Prerequisites: Six hours of Sociology.

733. CRIMINOLOGY. (3-0) *Credit 3.* I. Nature, extent and causes of crime; various schools of criminology, individualization of criminal treatment, and modern techniques of criminal investigation. Prerequisites: Sociology 213 and 223.

## SCHOOL OF ENGINEERING

In the School of Engineering, advanced work is offered leading to the degree of Master of Science, in the fields of Engineering and Industrial Education.

Prerequisite to major graduate work in these fields, is the completion of a four-year curriculum, substantially equivalent to that required of undergraduates in the School of Engineering

For advanced work in the School, good library facilities and laboratory equipment are provided to carry on the work suggested. Certain research problems may be made available in cooperation with other departments of the College.

## ARCHITECTURE

713-723. ADVANCED ARCHITECTURE. (0-9) *Credit 3.* I and II. Advanced problems in Architectural design; creative and functional use of materials.

733-743. CITY PLANNING. (0-9) *Credit 3.* II. Relation of urban elements to the city; residential, business, industrial, recreational, and municipal areas; transportation, traffic and street systems.

## CIVIL ENGINEERING

503. EARTH MASONRY STRUCTURES. (2-3) *Credit 3.* I, II. Design and construction of dams, retaining walls, abutments and piers, culverts, grain elevators and bins.

513. PUBLIC HEALTH ENGINEERING. (3-0) *Credit 3.* Design of water purification works and principles of sanitation.

533. REINFORCED CONCRETE DESIGN. (2-3) *Credit 3.* I. Theories of action of beams, slabs, and columns of reinforced concrete; codes and specifications and their influence on design; effect of continuity.



563. **STATICALLY INDETERMINATE STRUCTURES.** (1-6) *Credit 3. II.* Outer forces, reactions, moments and shears for fixed and moving loads, the use of influence lines, the determination of deflections of structures by methods of moment areas, elastic loads, virtual work and Williot diagrams; methods of solution for stresses in statically indeterminate structures by virtual work, slope deflection, and moment distribution; continuous beams, trusses, building frames and arches. Prerequisite: Civil Engineering 353.

743. **STRUCTURAL THEORY AND DESIGN.** (2-3) *Credit 3. II.* Statically indeterminate trusses, continuous trusses; steel arches; secondary trusses; suspension bridges; long span roofs; skeleton steel buildings and space structures.

753. **ADVANCED STRENGTH OF MATERIALS.** (3-0) *Credit 3. I, II.* Special problems met in engineering, limitations of the flexure and torsion formulas, unsymmetrical bending, curved beams, combined stresses, thin tubes, thick hollow cylinders, flat plates and localized stresses.

763. **WATER POWER ENGINEERING.** (2-3) *Credit 3. II.* Estimates of water power from steam flow data; theory and practice of hydraulic turbines; elements of design of dam, waterway and power house; cost and value of water power.

773. **RESEARCH IN CIVIL ENGINEERING.** *Maximum credit 9 hours.* Original investigation or advanced study in some field related to the practice of Civil Engineering.

## ELECTRICAL ENGINEERING

513. **ADVANCED COMMUNICATION CIRCUIT ANALYSIS.** (3-0) *Credit 3.* Theorems and properties of communication net works in steady-state and transient conditions.

533. **ULTRA- HIGH FREQUENCIES.** (3-0) *Credit 3. I, II.* Radio transmission and reception, including ultra-high frequency techniques.

533. **ELECTRIC POWER GENERATION.** (3-0) *Credit 3. I, II.* Economics and technique of electric power generation. Effect of load curve on costs; thermal efficiency and commercial economy of various heat cycles; general layout of the generating station; division of load among generating units; by-products generation.

743. **ADVANCED ALTERNATING-CURRENT MACHINERY.** (3-0) *Credit 3. I, II.* Analysis of more intricate electrical problems met in the operation of alternation-current machinery.

763. **ELECTRICAL ENGINEERING RESEARCH.** (3-0) *Credit 3. I, II.* Original investigation of special problems in the field of electrical engineering; problem selected by the student with the approval of the Department.

## GENERAL ENGINEERING DRAWING

513. **ADVANCED SHOP PRACTICE.** (0-9) *Credit 3. I.* Heat treatment, machine tool work, welding, jig, fixtures, pattern making, and any shop work that may be of special interest to student. All assignments must be approved by the Dean of the School of Engineering.

723. **GRAPHICS OF FORMULAS.** (3-0) *Credit 3.* Simple empirical equations; curve tracing and fitting; diagramming of formulas; the construction of nomographic or alignment charts, interpolation, numerical and graphical integration and differentiation, and special slide rules.



## GENERAL ENGINEERING DRAWING

562. ADVANCED DESCRIPTIVE GEOMETRY. (1-5) *Credit 2.* I, II. Graphical representation and the application of plane and space curves; advanced problems in single curved and doubled surfaces including the convolute and their developments; fundamentals of perspective and other pictorial means of representation.

## INDUSTRIAL EDUCATION

512. CURRICULUM CONSTRUCTION AND COURSE MAKING IN INDUSTRIAL EDUCATION. (2-0) *Credit 2.* I. Principles of curriculum construction and course making; study of curriculum concepts as have prevailed in modern education; comparative study of Industrial Education curricula as used throughout leading high schools; analytical technique in curriculum construction; course making and syllabus construction.

523. TESTS AND MEASUREMENTS IN INDUSTRIAL EDUCATION. (3-0) *Credit 3.* II. Sources of instructional testing and evaluating materials; construction and use of test and evaluating devices; administering, scoring, recording and interpreting tests, progress charts, diagnosis of difficulties, analysis of teaching problems as related to evaluation.

533. INSTRUCTIONAL METHODS IN INDUSTRIAL EDUCATION. (3-0) *Credit 3.* I. Study of methods devices, techniques as applied to teaching industrial subjects; analysis and evaluation of student learning difficulties and teaching responsibilities in industrial classes; also study of the nature, preparation and use of instruction sheets.

542-3. TRADE AND JOB ANALYSIS. (2-0) (3-0) *Credit 2 or 3.* II. Analysis technique as it has been developed by various leaders in Industrial Education; job analysis for the purpose of determining the content of training for an occupation; related content analysis for determining what should be taught as classroom material; analysis of a trade, industry or industrial plant for determining the general outline of a program of trade or industrial training.

563. THE GENERAL SHOP. (3-0) *Credit 3.* II. The general shop organization, its contribution to attainment of cardinal objectives on the modern high school, current practices as to type of shops, equipment, instructional materials and procedures.

583. INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL. (2-0) *Credit 2.* I and II. A course designed for teachers, supervisors, principals of elementary schools. Fundamental concepts, philosophies of Industrial Arts in the elementary school; function and scope, organization, administration, activities and methods of teaching Industrial Arts on the elementary level.

593. AUDIO AND VISUAL EDUCATION. (3-0) *Credit 3.* II. Study of the various audio and visual aids with emphasis on selection, evaluation and technique of educational use; construction and development of various aids and devices; sources of available materials in the field; practical experience in use of aids as movie projectors, slides, film strips, opaque projects, etc.



712-3. ADMINISTRATION AND SUPERVISION OF INDUSTRIAL ARTS EDUCATION. (2-0) (3-0) *Credit 2 or 3.* I. How to organize, supervise and administer functioning programs of Industrial Arts; the duties of a supervisor and director of Industrial Arts; special problems of supervision and Administration of Industrial Arts; relationships to local, state and federal educational authorities, correlating Industrial Arts with other phases of education.

722-3. ADMINISTRATION AND SUPERVISION OF VOCATIONAL-INDUSTRIAL EDUCATION. (2-0) (3-0) *Credit 2 or 3.* II. The administration and supervision of Vocational-Industrial Education in all day, part-time and evening programs, apprenticeship, school-industry programs, vocational rehabilitation; relation of federal to state, state to local each to the other; a study of the legal administrative and supervisory aspects of Vocational-Industrial Education as it operates under the Smith-Hughes and George-Borden Act; also, the State Plan for Vocational Education.

732-3. PHILOSOPHY OF INDUSTRIAL EDUCATION. (2-0) (3-0) *Credit 2 or 3.* I. Fundamental concepts of progressive Industrial Education; principles, beliefs, and assumptions in regard to Industrial Education; its objectives and relationship to other phases of education; its justification in the total scheme of modern education.

743. THE HISTORY OF INDUSTRIAL EDUCATION. (3-0) *Credit 3.* II. A survey of the early movements, experiments and writings concerning leaders of the United States and European countries. Intensive study of developments in Industrial Education since 1850. A comparative study of leaders, movements, institutions and literature in the field of Industrial Education.

753. PRACTICES IN INDUSTRIAL EDUCATION. *Maximum credit 6 hours.* Development of current problems as reflected through the merging of practical experience with theoretical and scientific concepts.

763. RESEARCH AND THESIS WRITING. (3-0) *Credit 3.* I and II. Required of all majors in Industrial Education. Methods and techniques of research writing and reporting. Designed especially for students who are to write thesis or lesser reports.

783. PROBLEMS IN INDUSTRIAL EDUCATION. (3-0) *Credit 3.* I and II. Conferences and advisement in selection and preparation of an acceptable term paper or essay. Prerequisite: I.E. 763.

792-4. THESIS IN INDUSTRIAL EDUCATION. (2-0) (4-0) *Credit 2 or 4.* Conferences and advisement in relationship to the selection and preparation of an acceptable thesis for the Master of Science Degree. Prerequisite I.E. 763.

## MECHANICAL ENGINEERING

503. REFRIGERATION. (3-0) *Credit 3.* I or II. The application of thermodynamics to problems of refrigeration; types of refrigerating machines and plants, refrigerants, icemaking, cold storage, cooling of air, liquids and solids, construction details of commercial and household refrigerating plants and their economic operation.

523. FLOW OF FLUID AND HEAT TRANSFER. (3-0) *Credit 3.* I or II. Review of first and second laws of thermodynamics, compressors, refrigeration cycles. The design of apparatus for heat transfer by conduction, convection, and radiation, with particular reference to heat exchangers, air preheaters, economizers, evaporators, boilers and condensers.



703. ADVANCED POWER PLANTS. (3-0) *Credit 3.* I or II. Modern power plants; the design and installation of high pressure boilers, economizers, air preheaters, modern fuel burning furnaces, and automatic combustion controls; various steam cycles and types of auxiliary drive; their affect on station heat balance; discussion of deaerators, evaporators, condensers, heaters, etc., including turbin and machinery foundations and layouts.

713. ADVANCED ENGINEERING THERMODYNAMICS. (3-0) *Credit 3.* I, II. Advanced phases of engineering thermodynamics, including the examination of the validity of recent data, theories and formulations for their adaption to engineering practice.

723. ADVANCED MACHINE DESIGN. (3-0) *Credit 3.* I or II. Material selection, working stresses, factors of safety, machine frames, fastenings, universal joints, gears, shafts, couplings, clutches, brakes of bearings.

733. DYNAMICS OF MACHINERY. (3-0) *Credit 3.* II. Advanced dynamics of machinery; inertia effects, torque characteristics, flywheel design and the balancing of multiple cylinder engines and compressors; critical speed and the design of turbine drums.

793. RESEARCH IN MECHANICAL ENGINEERING. *Maximum credit 9 hours.* Original investigation or advanced study in the field of Mechanical Engineering.

## SCHOOL OF HOME ECONOMICS

### GENERAL HOME ECONOMICS

Prerequisites: Students desiring to major in Home Economics must present undergraduate subject matter credits in certain of the following: Social sciences, physical sciences, biological sciences, art, and education, which shall be satisfactory to the adviser under whose direction the major work is to be done. In addition the student must have adequate undergraduate training in that field of Home Economics in which she wishes to specialize.

A "split major" may be taken in Home Economics Education and General Home Economics; a minor may be selected in General Education, Administration and Supervision, or Rural Education. Students may also major in Home Economics Education and minor in General Home Economics, or in General Education, or in Administration and Supervision, or in Rural Education.

### GENERAL HOME ECONOMICS COURSES

701. SEMINAR IN FOODS. (3-0) *Credit 3.* I and II. Reviews and interpretations on the field of foods and experimental food preparation, involving individual assignments and oral and written reports.

703. SEMINAR IN NUTRITION. (3-0) *Credit 3.* I and II. Review and interpretation of the literature of this field, emphasizing recent advances and involving individual assignments and reports.

753. CLOTHING ECONOMICS. (3-0) *Credit 3.* I. Aspect of clothing which directly or indirectly affect the consumer.

763. PROBLEMS IN HOME ECONOMICS. (3-0) *Credit 3.* II. Investigation of selected problems in a particular area. Independent study, and written and oral reports.

773. ADVANCED CLOTHING. (3-0) *Credit 3.* Advanced problems in garment construction; selection, design and construction of suitable clothing for both children and adults.



## HOME ECONOMICS EDUCATION

523. RESEARCH PROBLEMS. (3-0) *Credit 3.* I or II. Methods used in collection, treatment and interpretation of data in the field of Home Economics. (Formerly called "Organization and Presentation.")

723. EDUCATIONAL MEASUREMENT. (3-0) *Credit 3.* II. Home Economics subject matter tests, scales, construction and evaluation of objective devices.

743. STATISTICAL TECHNIQUES. (3-0) *Credit 3.* I or II. Methods of interpretation and utilization of test data.

793. HOME ECONOMICS CURRICULA. (3-0) *Credit 3.* I. The objectives of home economics in high schools; recent surveys and other methods used in determining content of curricula.

3X3. RESEARCH. (3-0) *Credit 0.* I or II. Thesis involving extensive study of chosen problems.

## MASTERS DEGREES CONFERRED—1938-1950

## 1938-1939

HARRISON, ARMYE J. Major—Administration and Supervision Minor—Rural Sociology

Thesis: A Case History of Pickard High School, Brenham, Texas, 1949

RHONE, FRIEDA E. Major—Rural Sociology Minor—Rural Education

Thesis: The Recreational Activities of Rural Youth in Waller County, Texas, 1939-40

DAVIS, WILLIAM L. Major—Administration and Supervision Minor—General Education

Thesis: A Coordinating Community Program

GOODEN, JOHN EDDIE Major—Administration and Supervision Minor—Sociology

Thesis: A Comparative Study of the Family Background

MAYFIELD, CHARLOTTE Major—Administration and Supervision Minor—Sociology

Thesis: Improving the Curriculum

PUNCH, OSSALEE V. Major—Administration and Supervision Minor—Rural Sociology

Thesis: A Tentative Guidance Program

WILLIAMS, WILLIE LEE Major—Administration and Supervision Minor—Rural Sociology

Thesis: History of Booker T. Washington High School

## 1941-1942

ANDREWS, ROBERT Major—Administration and Supervision Minor—Rural Sociology

Thesis: Availability of Education to Negroes in Waller County, Texas

ARMSTRONG, IRA E. Major—Administration and Supervision Minor—General Education

Thesis: Historical Study of Public Elementary School in San Antonio, Texas

BRADY, ARTHUR E. Major—Administration and Supervision Minor—General Education

Thesis: An Appraisal of the Reorganization of the San Antonio Schools

CLATER, MARIE Major—Administration and Supervision Minor—English

Thesis: An Analysis and Appraisal of the Aims of Negro Teacher-Colleges in Texas

COLLINS, WILLIAM Major—Agricultural Education Minor—Rural Sociology

Thesis: Health Conditions of One Hundred Negro Households in Schulenburg, Texas

HERALD, A CLYDE Major—Chemistry Minor—Education

Thesis: The Formation and Study of Certain Alkamine Esters of Substituted Cinnamic Acids

JONES, LAURA NICHOLS Major—Administration and Supervision Minor—Rural Education

Thesis: A Survey of the Visual Aids Used In Waller County Schools

PERRY, VIRGINIA B. Major—Rural Education Minor—Rural Sociology

Thesis: Recreational Activities of Blackshear Elementary School

WELLS, THELMA N. S. Major—Administration and Supervision Minor—Rural Education

Thesis: Some Reading Deficiencies of Negro Children of Waller County

WILLIAMS, SAMUEL B. Major—Chemistry Minor—Physics

Thesis: The Formation and Study of Certain Benzoin and Some of Their Derivatives

## 1940-1941

ARCHIA, ERNEST A. Major—School Administration Minor—Political Science

Thesis: A Ten Year Follow-Up Study of the Sixty Graduates and Ninety-Two Drop-Outs of the George Washington Carver High School, Goose Creek, Texas



- BURTON, T. H. Major—Administration and Supervision Minor—Rural Education  
Thesis: A Recommended Program of Principal-Teacher Supervision For Center Point School, Pittsburg, Texas
- CALDWELL, HERMAN Major—Administration and Supervision Minor—Rural Education  
Thesis: Some Causes of Irregular Attendance in the Negro Public Schools of Texarkana, Arkansas
- COLLINS, STELLA Major—Administration and Supervision Minor—History  
Thesis: A Comparative Study of the Compulsory Attendance Laws of the Southern States With Special Emphasis Upon the Attendance Laws of Texas
- FULLER, RUBY W. Major—Home Economics Minor—Administration and Supervision  
Thesis: The Effect of Home Produced Foods Upon the Eating Habits of Pre-School Children in Henderson County, Texas
- HALL, OLIVIA W. Major—General Home Economics Minor—General Education  
Thesis: Homemaking Unit For Adults Based On A Study of the Residents of the D. N. Leathers Slum-Clearance Project at Corpus Christi, Texas
- HAYES, JENNIE V. Major—History Minor—Political Science  
Thesis: History of the United Transport Service Employees of America
- HINES, LILLIE BELLE Major—Rural Education Minor—General Education  
Thesis: A Comparative Study of Some Current Practices in Elementary Education As Found in Negro Schools in Travis County
- JOHNSON, A. SODERS Major—English Minor—General Education  
Thesis: A Proposed Program of Language Arts for Ninth Grade of Booker T. Washington High School, Marlin, Texas
- LIVINGSTON, LORA Major—General Education Minor—Rural Education  
Thesis: A Study of the Needs and Possibilities for the Teaching of Art in the Negro Elementary Schools of Houston, Texas
- LUTER, BUCKNER S. Major—Agricultural Education Minor—Administration and Supervision  
Thesis: Organizing New Farmers of America For Proficiency in Agricultural Vocations
- MCDONALD, A. W. Major—Administration and Supervision Minor—Political Science  
Thesis: A Status Study of the Graduates of Central High School for the Five-Year Period, 1932-1936, With Implication for Curriculum Reorganization
- POOLE, JONES SADIE N. Major—Rural Education Minor—Rural Sociology  
Thesis: A Study of Methods and Materials As Can Be Applied To The Improvement of Junior High Schools
- REYNOLDS, LOIS Major—Sociology Minor—Economics  
Thesis: Sustenance Position of Texas Negro Domestic Servants in the Texas Economy
- RICHARDS, BESSYE Major—Home Economics Education Minor—Sociology  
Thesis: A Study of the Effects of Part-Time Employment Upon the Scholastic Achievement of Home Economics Students at Prairie View State College, 1926-1940
- SASSER, ANNIE G. H. Major—Mathematics Minor—Rural Education  
Thesis: Functions and Functional Relationships in Secondary Mathematics
- TAYLOR, SAMUEL B. Major—Political Science Minor—Economics  
Thesis: The Administrative Organization of the State of Texas
- THOMAS, BESSIE Major—Rural Education Minor—Rural Sociology  
Thesis: A Study of the Advantages and Disadvantages of the Consolidated Negro Schools in Waller County, Texas
- TURNER, FALBIA A. Major—Sociology Minor—History  
Thesis: Some Factors Giving Rise to Differential Grouping Among the Pupils of Trinity Garden Elementary School of Houston, Texas

## 1942-1943

- ALEXANDER, ZELEMOR Major—Administration and Supervision Minor—General Education  
Thesis: A Study of the Records Used in Twenty-Five Representative Negro High Schools of Texas
- ANDERSON, CORA BELLE PASLEY Major—Administration and Supervision Minor—Elementary Education  
Thesis: The Current Attitude of Teachers Regarding Disciplinary Problems in the Negro Elementary Schools of Houston, Texas
- BARNETT, JEWEL LOVETTA Major—Rural Education Minor—General Education  
Thesis: Education Availability for Negro Girls and Boys in Lincoln County, Oklahoma
- BROWN, ANNIE LOIS Major—Home Economics Education Minor—General Education  
Thesis: A Study of the Interests and Aversions of Homemaking Pupils in seventy-four Vocational Schools of Texas
- CAMERON, BELLA HOLLEY Major—Administration and Supervision Minor—General Education  
Thesis: An Analysis of Progressive Elementary Education With Proposals for the Improvement of Instruction in Cuney Elementary School, San Antonio, Texas
- HARRIS, CORNELIUS ALFRED, JR. Major—Administration and Supervision Minor—General Education  
Thesis: An Analysis of Some Factors Affecting Attendance At Booker T. Washington School in Galveston, Texas



- JOHNSON, VALERIE BERTINA Major—Biology Minor—General Education  
Thesis: Studies in Abdominal Distention
- JOHNSON, BESSIE HALLOWELL Major—English Minor—General Education  
Thesis: An Investigation in Progress in Reading Ability of One Hundred Senior Pupils of Phillis Wheatley High School, Houston, Texas
- JOHNSON, W. L. D. SR. Major—General Administration Minor—Social Science  
Thesis: Organization of the Public Schools in Houston, Texas, 1905-1940
- KILPATRICK, MABEL EUNICE Major—English Minor—Education Administration and Supervision  
Thesis: A Study of Reading Achievement at H-6 Grade Level in the Negro Elementary Schools of Houston, Texas
- MULDREW, GEORGIA HILBURN Major—Physical Education Minor—English  
Thesis: Factors Influencing the Health of Negroes in Houston, Texas
- SANDERSON, JAMES CHARLES SUMMER Major—Education Minor—Political Science  
Thesis: Eliminations in the Wheatley High School in Houston, Texas, 1937-1941
- VAUGHN, FLORENCE E. FOWLER Major—English Minor—Rural Education  
Thesis: A Reading Program for the Ninth Grade of the St. Paul High School, Greenville, Texas
- WASHINGTON, JORDAN THOMAS Major—Administration and Supervision Minor—Rural Education  
Thesis: Adequacy of Public Education for Negroes of Jasper County, Texas
- WILSON, LUCELUSTINE WALKER Major—General Education Minor—Education Administration and Supervision  
Thesis: A Study of Progressive Education as Practiced in Negro Secondary Schools of Texas

## 1943-1944

- ADAMS, ALLENE ARCHIA Major—History Minor—General Education  
Thesis: The Development of the Oil Industry in the Baytown Area, Especially As It Affects the Employment and Welfare of Negroes
- BARLOW, MICHEAL K. Major—Administration and Supervision Minor—Rural Education  
Thesis: A Study of Retardation in Five Negro High Schools in Fort Bend County, Texas
- BLAND, REDA LEE Major—General Education Minor—Mathematics  
Thesis: The Function of Mathematics in General Education
- BLANKS, VITTORIA C. Major—English Minor—Education  
Thesis: The Status of Reading Ability Among Prairie View College Freshmen: An Exploratory Study
- BROOKS, WINZOLA DUVAL Major—General Education Minor—Administration and Supervision  
Thesis: A Remedial Reading Program Designed to Meet the Difficulties Found in the Fourth Grade of Coles School, Corpus Christi, Texas
- BUTLER, EULALIA VELMA Major—Mathematics Minor—General Education  
Thesis: Maxima and Minima of Functions of One and Two Variables
- CLEMONS, ROSA ELLEN Major—Rural Education Minor—General Education  
Thesis: Problem of Studying, Collecting, and Arranging Curriculum Material That May Be Used in the Teaching of Elementary Science for Primary Grades
- CONNER, JEFFIE O. A. Major—Home Economics Minor—Rural Sociology  
Thesis: A Study of Four Hundred and Sixty Negro Farm Families in Three Texas Counties
- CRAWFORD, BERTHA O. Major—Administration and Supervision Minor—Rural Education  
Thesis: A Study of a Remedial Reading Program and Its Effect On the Improvement of Reading in the Fifth and Sixth Grades of the Bruce Elementary School, Houston, Texas
- FENNOY, THELMA RAND Major—Sociology Minor—Economics  
Thesis: The Spatial Distribution of Deaths in the City of Houston, Texas
- HATHAWAY, SARAH LEE Major—English Minor—Mathematics  
Thesis: Sectioning Freshman English on the Basis of Reading Test Scores
- JACKSON, L. K. Major—Educational Administration Minor—History  
Thesis: The Organization and Administration of Thirty-Four Selected Small Negro High Schools in Oklahoma
- KENYON, MATTIE BELZORA Major—Administration and Supervision Minor—Rural Education  
Thesis: A Rural Elementary School Report That Will Meet the Needs of the Pupils, Patrons, and Teachers of the Negro Schools of Oklahoma County
- LANGRUM, HENRY CLAY Major—Agricultural Education Minor—Rural Sociology  
Thesis: Evidences of Effectiveness of Instruction in Vocational Education Agriculture in Houston County, Texas
- MALONE, VERA E. Major—General Education Minor—Rural Education  
Thesis: A Suggested Plan for the Education of the Physically Handicapped Children in the Waco Elementary School



- MERRICK, PORTIA CONRAD Major—Administration and Supervision Minor—Sociology  
Thesis: A Comparative Study of Factors Probably Relating To Attendance in East Baton Rouge Negro Rural Schools
- PHILLIP, JIMMIE RUTH Major—Homemaking Minor—General Home Economics  
Thesis: A Proposed Survey Course for Freshmen Home Economics Students at Prairie View Normal and Industrial College
- RANDLE, IRENE ETHELIND Major—Administration and Supervision Minor—Rural Education  
Thesis: A Comparative Study of Common Schools for Negroes in Brazos County
- ROBERTSON, ATHAL XIMINIA Major—Biology Minor—Education  
Thesis: The Effects of Colchicine on Germination and Polyploid Development of Watermelons
- SANDERS, RETA MAE Major—Rural Education Minor—Administration and Supervision  
Thesis: The Development of the Workshop Idea in the Program of Higher Education for Negroes in Texas
- SEALS, LIZZIE EMMA Major—General Education Minor—English  
Thesis: A Study of How the Coordinated Program Functions in Community Life Development in Smith County, Texas
- SNEED, BEATRICE B. Major—Rural Education Minor—General Education  
Thesis: A Study of Cune Community for the Purpose of Developing a Functional Primary Curriculum
- TAPSCOTT, GERTRUDE Major—Rural Education Minor—Home Economics  
Thesis: A Plan for Helping Teachers of Cherokee County Discover and Make Use of Community Resources as Elementary Curriculum Materials
- WITHERSPOON, LOTTIE B. Major—Foods Minor—Rural Sociology  
Thesis: A Study of the Food Consumption of Eighty-Six Families Dining Hall

## 1944-1945

- ALLEN, ALBERTA S. Major—Home Economics Minor—Rural Education  
Thesis: A Study of the Food Consumption of Eighty-Six Families in Carlsbad, New Mexico
- AUSTIN, R. S. Major—Administration and Supervision Minor—Agricultural Economics  
Thesis: A Comparative Study of the Training, Experiences, Duties And Responsibility of East Texas Negro School Principals
- DACUS, DALTON F. Major—Agricultural Education Minor—Agricultural Economics  
Thesis: Some Factors Affecting Vocational Education in Agriculture
- DEAN, JULIA K Major—English Minor—General Education  
Thesis: A Study of the Analysis of the Errors Made by Prairie View Freshmen for the Year, 1944-1945
- ELLIS, DELIA HALL Major—Home Economics Education Minor—Education  
Thesis: A Comparative Study of Marks Earned by Native and Transfer Home Economics Students
- HARRISON, C. A. Major—Rural Education Minor—Rural Sociology  
Thesis: Determining Courses of Study in Farm Mechanics For Texas Based on the Analysis of the Need of 300 Negro Farmers
- HARRISON, RAY ALFRED Major—Agricultural Education Minor—Agricultural Economics  
Thesis: Teaching NFA in a Regular Program of Vocational Agriculture
- JACKSON, CHARLES E. Major—Administration and Supervision Minor—General Education  
Thesis: A Study of Educational Provisions for Negroes in Gregg County
- JACKSON, GWENDOLYN Major—Piano Minor—Music Theory  
Thesis: Orchestral Transcription of Beethoven's Piano Sonata, Opus 57, First Movement
- JOHNSTON, WILLIAM CLIFFORD Major—Administration and Supervision Minor—Political Science  
Thesis: The Relationship Between Vocabulary of Scholastic Achievement of a Group of Prairie View University Students
- KEMP, I. B. Major—Industrial Education Minor—Administration and Supervision  
Thesis: The Status of the Negro Industrial Worker in Houston, Texas
- LANGRUM, MABLE P. Major—Administration and Supervision Minor—Rural Education  
Thesis: A Study of Some Supervisory Practices in Some Selected Schools in East Texas With Recommendations for Improvement
- NICHOLAS, JOSEPHINE C. Major—Home Economics Minor—Education  
Thesis: A Comparative Study of Grades of Home Economics Graduates of Prairie View College, 1939-1944
- PERRY, DOUGLASS D. Major—History Minor—Education  
Thesis: Black Populism: The Negro in the People's Party in Texas
- PURYEAR, BRYTE HOOVE Major—Administration and Supervision Minor—Sociology  
Thesis: An Analysis of Punctuation Errors of Three Hundred Freshmen at Prairie View State College



- RANDALL, BEATRICE HOGAN Major—English Minor—Education  
 Thesis: An Analysis of Punctuation Errors of Three Hundred Freshmen Students of Prairie View College, 1944-1945
- REESE, GOLDIE B. Major—Elementary Education Minor—Administration and Supervision  
 Thesis: Noon-Hour Recreation in the Elementary Schools of Houston, Texas
- STUBBLEFIELD, BEAUREGARD Major—Mathematics Minor—Chemistry  
 Thesis: Computation of All the Real and Complex Roots of Algebraic and Transcendental Equations
- THOMAS, BENJAMIN F. Major—Administration and Supervision Minor—Agricultural Education  
 Thesis: A Survey of the Health Conditions of the Negro School Children in Ellis County
- THOMAS, O. J. Major—Agricultural Education Minor—Rural Sociology  
 Thesis: Suggested Principles and Practices for Cooperative Teaching With Special Reference to the Part to Be Taken By Vocational Agriculture
- WALLS, PAULINE A. Major—Political Science Minor—Sociology  
 Thesis: The Potentiality of the Negro Vote in Texas

## 1945-1946

- ANDERSON, ARCHIE B. Major—Administration and Supervision Minor—Sociology  
 Thesis: A Study of Classroom Instruction in Five Harris County Schools
- EVERYHARDT, SARAH A. Major—Education Minor—History  
 Thesis: Developing a Postwar Community School Program Through the High School Social Studies of the Furney Richardson School
- BATTS, WILLIAM M. Major—Administration and Supervision Minor—Rural Education  
 Thesis: What the General Baptists of Texas (Negro) Want Educationally, With Suggestions for Improvement
- BOONE, LOLITA A. Major—English Minor—Education  
 Thesis: A Critical Study of the English Teachers in a Texas County, Particularly as Their Attitudes, Abilities and Interest Affect the Background of Their Students, 1945-1946
- DAVID, VEOLA E. Major—Administration and Supervision Minor—Education  
 Thesis: A Proposed Vocational Guidance Program for the Junior High Schools of Madison County, Texas
- DOWNS, WALLACE E. Major—Agricultural Economics Minor—Agricultural Education  
 Thesis: Influences of Soil Conservation on the Farming Program of 100 Farmers in the Grambling Area, Lincoln Parish, Louisiana, 1940-45
- GASTON, JOHNNIE L. Major—Sociology Minor—Education  
 Thesis: Relation of Socio-Economic Status and General Intelligence
- GEE, RUTH ELLA Major—Administration and Supervision Minor—Home Economics  
 Thesis: The History and Development of Prairie View Training School From 1916-1946
- HARDMAN, VEORIA M. Major—English Minor—Education  
 Thesis: An Analysis and Evaluation of the Freshman Reading Program of Prairie View University for the Year 1945-1946
- HINES, VIVIENNE P. Major—General Education Minor—Rural Education  
 Thesis: An Analysis of the Status of the Negro Teachers of West Texas
- HOGAN, WILMA R. Major—English Minor—Education  
 Thesis: The Negro in Contemporary American Fiction
- HUMPHREY, THOMAS W. Major—Administration and Supervision Minor—Agricultural Education  
 Thesis: A Survey of the Vocational Guidance Practices in 103 Negro Schools of Texas
- JOHNSON, BLANCHE E. Major—Education Minor—Political Science  
 Thesis: An Analysis of In-Service Teacher Traits Preferred by Students, Parents and Student Teachers of the Prairie View University Training School, 1945-1946
- JOHNSON, JESSE W. Major—Biology Minor—Chemistry  
 Thesis: An Algeological Study of the Vicinity of Prairie View, Texas
- JOHNSON, WALTER L. D. Major—Administration and Supervision Minor—Elementary Education  
 Thesis: An Investigation in Pupil Achievement in Relation to Intelligence and Personality Patterns of Two Hundred Twenty-Eight Pupils of Jack Yates Senior High School, Houston, Texas
- KENYON, HARRY C. Major—Administration and Supervision Minor—Political Science  
 Thesis: The Relation Between Intelligence Rating and Teachers' Marks: A Study of Freshmen at Prairie View University, Prairie View, Texas
- LEE, WISTER M. Major—Administration and Supervision Minor—Physical Education  
 Thesis: An Evaluation of the Physical Education Program at Prairie View University Prairie View, Texas
- McDONALD, ELOISE S. Major—Administration and Supervision Minor—Physical Education  
 Thesis: A Suggested Recreation Program for the Lufkin Community
- MILLARD, ETHEL K. Major—Administration and Supervision Minor—Elementary Edu-



cation

**Thesis:** An Inquiry into the Relationship Between Home Condition and Scholastic Achievement in Arithmetic

**NELSON, ISAAC T. Major—Agricultural Education Minor—Education**

**Thesis:** A Comparative Study of Records Made by Students in the Division of Agriculture from Vocational and Non-Vocational High Schools

**RICHARDS, EUDORA H. Major—Administration and Supervision Minor—Rural Education**

**Thesis:** A Program for the Fourth and Fifth Grades of the Colored Elementary Schools—Goose Creek, Texas

**TARROW, WILLIE A. Major—History Minor—Administration and Supervision**

**Thesis:** A University for Negroes of Texas: A Promise Unfulfilled

**THOMPSON, ORA MAE Major—Home Economics Minor—Education**

**Thesis:** Family Life Education in Negro Schools of Waller County, Texas

**THOMPSON, WARDELL D. Major—Agricultural Education Minor—Administration and Supervision**

**Thesis:** N.F.A. Instruction in Vocational Agriculture in Area IV, Texas

**WESLEY, FRANKLYN D. Major—Industrial Education Minor—Mechanic Arts**

**Thesis:** Standardization of Industrial Arts Courses in Texas

**WILLIAMS, IKE W. Major—Agricultural Education Minor—Administration and Supervision**

**Thesis:** A Study of Animal Husbandry Practices of One Hundred Negro Farmers in Anderson County, Texas

## 1946-1947

**ABERNETHY, RUBY O. P. Major—Home Economics Minor—Education**

**Thesis:** Home Activities of Eighth Grade Girls Taking Vocational Homemaking in Texas

**ACKERMAN, BENNIE G. Major—Physical Education Minor—Administration and Supervision**

**Thesis:** Physical Education and its Function in the Secondary School With a Suggestive Program for I. M. Terrell High, Fort Worth, Texas

**ANDERSON, MOZZELLE Major—Elementary Education Minor—Biology**

**Thesis:** A Survey of The Health Records and Their Implication in the Negro Elementary Schools of Houston, Texas

**ARMSTRONG, WILLIAM L. Major—Education Minor—English**

**Thesis:** A Survey of Errors in Senior Grammar at Lincoln High School, Dallas, Texas

**AUSTIN, EFFIE B. Major—Administration and Supervision Minor—English**

**Thesis:** A Study of the Attitudes of Parent-Teachers Toward Modern Education in the Negro Elementary School of Tyler, Texas

**BLANCHETTE, JACOB S. Major—Administration and Supervision Minor—Elementary Education**

**Thesis:** Status of Negro Teachers of Creek County, Oklahoma

**BOYER, JACOB L. Major—Administration and Supervision Minor—Agricultural Education**

**Thesis:** A Survey of Certain Personnel Aspects of the Cooperative Extension for Negroes in Texas

**BREEDING, FIDELUS DELL Major—Administration and Supervision Minor—Industrial Education**

**Thesis:** A Study of the Status of Prairie View Veterans

**BURNS, ANDREW JACKSON Major—Agricultural Education Minor—Administration and Supervision**

**Thesis:** A Study of the Educational Status and Responsibilities of Negro Teachers of Vocational Agriculture in Texas

**BUSBY, JEROME Major—Administration and Supervision Minor—Elementary Education**

**Thesis:** Some Factors Involved in Failure at Jack Yates High School, Houston, Texas

**CARROLL, WILLIE H. Major—English Minor—Administration and Supervision**

**Thesis:** A Study of Functional Grammar

**COSS, ROBERT W. Major—Agricultural Economics Minor—Agricultural Education**

**Thesis:** The History, Types of Projects, Plans and Policies of the Farm Security Administration

**EVANS, EDWARD B. JR. Major—Physical Education Minor—Administration and Supervision**

**Thesis:** A Suggestive Plan for the Reorganization of Interscholastic Athletics

**HAMILTON, GENERAL E. Major—Biology Minor—Administration and Supervision**

**Thesis:** A Study of the Structure of Hair With Special Reference to a Negro Child During First Years of Growth

**HARRINGTON, JAUNITA S. Major—Political Science Minor—History**

**Thesis:** War Propaganda in the United States Through Foreign Bureaus of Information

**HENRY, IRA CORINE Major—Education Minor—English**

**Thesis:** A Study of Speed Defects in the Vilden High School, Gladewater, Texas With Suggestions of Improvement



- JACKSON, MARY CHAMBERS Major**—Administration and Supervision **Minor**—Sociology  
**Thesis:** An Analysis of the Leisure-Time Interest of Children, Teen Ageds, and Adults of Oak Addition of Pelly, Texas
- KENNARD, MITTIE GRACE Major**—Music Education **Minor**—Piano  
**Thesis:** The Relationship of Texas College to Standards of Music in Public Schools
- MARKS, CURTIS MIRABEAU Major**—Agricultural Economics **Minor**—Administration and Supervision  
**Thesis:** A Study of the Type of Farming and of Farm Income of Fifty Negro Farmers in Waller County, Texas
- MASON, LEON U. Major**—Agricultural Education **Minor**—Administration and Supervision  
**Thesis:** A Suggestive Program of Work in Agriculture of Harrison County
- MINFIELD, FRANKIE C. Major**—Administration and Supervision **Minor**—Elementary Education  
**Thesis:** A Program for the Improvement of the Social Needs of the Piney Point Community
- MOODY, RICHARD A. Major**—Agricultural Economics **Minor**—Rural Education  
**Thesis:** A Plan of Work for the Neches-Sabine Soil Conservation District
- MORGAN, FLETCHER, JR. Major**—Agricultural Economics **Minor**—Agricultural Education  
**Thesis:** A Study of The Economic Status of Fifty Negro Farmers of Matagorda County, Texas
- MYERS, EWITT S. Major**—Administration and Supervision **Minor**—Agricultural Education  
**Thesis:** A Survey of Negro Teachers in the Elementary School in Brazoria, Texas
- NAVES, BESSIE FARRIS Major**—Administration and Supervision **Minor**—English  
**Thesis:** A Comparative Analysis of the Curricula of Ten of the Leading Colored High Schools in Texas
- NORMAN, GLAUCUS P. Major**—Administration and Supervision **Minor**—Elementary Education  
**Thesis:** A Proposed Plan for Vocational Guidance For the Anderson High School, Austin, Texas
- RICHARDSON, WILLIE Y. Major**—Elementary Education **Minor**—Administration and Supervision  
**Thesis:** A Comparative Study of Reading Abilities of Anglo-American, Negro American, and Latin-American of San Antonio Public Schools, San Antonio, Texas
- SADBERRY, EDGAR L. V. Major**—Physical Education **Minor**—Administration and Supervision  
**Thesis:** A History of Major Sports in the Southwestern Negro Athletic Conference from 1920-1947
- SMITH, ALLEN FRANKLIN Major**—Physical Education **Minor**—Administration and Supervision  
**Thesis:** A Health and Physical Education Program for the Mineola School
- STUBBLEFIELD, CEDRIC T. Major** Chemistry **Minor**—Mathematics  
**Thesis:** A Chemical Investigation of the Senna Bean (*Sesbania Macrocapa*)
- SUTTON, GEORGE D. Major**—Administration and Supervision **Minor**—Agricultural Education  
**Thesis:** A Study of the Causes of Irregular Attendance in the Negro Public Schools of Fort Worth, Texas
- WARNER, DILLARD Major**—Music Education **Minor**—Piano  
**Thesis:** The Status and Problems of Music Appreciation in the Negro High Schools of Texas with Remedial Measures
- WARREN, GLORIA GERALD Major**—Home Economics Education **Minor**—Administration and Supervision  
**Thesis:** College Home Economics as a Functional Factor in Home Management Based on Opinion of Some Married Graduates
- WHITE, CARRIE B. Major**—History **Minor**—Education  
**Thesis:** The Development of Higher Education for the Negro in the South From 1890 to 1914 with Special Reference to Land-Grant Colleges
- WHITE, GAZZELLA M. Major**—Administration and Supervision **Minor**—Rural Education  
**Thesis:** A Proposal For Development of A Training School at The Sabine Farms, Harrison County, Texas

## 1947-1948

- ADAMS, FRED E. Major**—Sociology **Minor**—Education  
**Thesis:** The Variation of Socio-Economic Characteristics of Counties According to Per Cent Negro Population of Each County
- BLANKS, COLUMBUS M. Major**—History **Minor**—Education  
**Thesis:** San Antonio, The Inland Gate
- BRADLEY, MABLE FRANCES Major**—English **Minor**—Education  
**Thesis:** A Study of Eugene O'Neil's Contribution to American Drama
- CAREY, ORA LEE Major**—English **Minor**—Education  
**Thesis:** Improving the English Usage of the Students of Jarvis Christian College



- CARY, REBY Major—History Minor—Education  
Thesis: The Development of the Negro Chamber of Commerce Movement in Texas
- CHUMLEY, LEO B. Major—History Minor—Education  
Thesis: Negro Labor and Property in Shelby County, Texas
- CLAY, SAMUEL C. Major—Administration and Supervision Minor—Sociology  
Thesis: A Brief Survey of Guidance Work and the Program of Guidance in Blackshar School at San Angelo, Texas
- COLLINS, CURTIS M. Major—Administration and Supervision Minor—Elementary Education  
Thesis: A Tentative Guidance Program for the Kealing Junior High School, Austin, Texas
- DADE, BILLYE E. Major—Administration and Supervision Minor—Elementary Education  
Thesis: A Professional Investigation of the Teachers of the Booker T. Washington and Lincoln High Schools of Dallas, Texas
- DAVIS, CHARLES ETTA OWENS Major—Elementary Education Minor—Administration and Supervision  
Thesis: A Study of Primary Techniques and Procedures with a View of Improving Activities as Learning Situations for the First Grade in Douglass Schools, Lawton, Oklahoma
- EWELL, MARJORIE MORRIS Major—Elementary Education Minor—Health Education  
Thesis: An Improved Reading Program in the Carver High School Frankston, Texas
- FRANKLIN, THEOPHILUS CLAY Major—Administration and Supervision Minor—Elementary Education  
Thesis: The Development of C. W. Carver High School, Karnack, Texas, as a Consolidated School
- GRAY, VELMA LAND Major—Education Minor—Biology  
Thesis: A Study of Health Knowledge, Practices, Misconceptions, and Superstitions of 7th and 8th Grade Students in Hopkins County
- HARDEN, RUBY BROWNE Major—Home Economics Education Minor—Administration and Supervision  
Thesis: A Follow Up Study of Two Groups of Home Economics Students Who Withdrew From Prairie View A. & M. College Before Graduation 1933 and 1943
- HARRISON, RICHARD WAGNER Major—Music Education Minor—Music Theory  
Thesis: Three Pastoral Scenes
- HAYES, JAMES DEAN Major—History Minor—Administration and Supervision  
Thesis: The Congress of Industrial Organizations Movement Into The South With Special Reference to Texas
- HEARN, R. D. Major—History Minor—Administration and Supervision  
Thesis: The Development of Higher Education For Negroes With Special Reference to the Denominational Schools
- HENDERSON, MAE ELLA Major—Elementary Education Minor—Administration and Supervision  
Thesis: An Experiment Conducted in Spelling Among the Prairie View Freshmen, 1947-48
- HOLLINS, ARNTIE EDWARD Major—History Minor—Economics  
Thesis: The Colored Teachers State Association of Texas as Revealed in the Texas Press
- JONES, HENRY VINIE Major—Administration and Supervision Minor—History  
Thesis: The Causes of Discipline Problems and Their Treatment in the Fred Douglass High School of Jacksonville, Texas
- LEWIS, LILLIAN M. Major—Home Economics Education Minor—Administration and Supervision  
Thesis: A Study of the Eating Habits and Related Factors of Some Pupils in Grades 4, 5, and 6 in Selected Schools in Texas
- MADISON, WILLIAM MACK Major—Biology Minor—Chemistry  
Thesis: A Histological Study of the Malpighian Tubules of the Gryllus Domesticus
- MOON, CLARA EVA Major—Elementary Education Minor—Administration and Supervision  
Thesis: A Revised Curriculum of Dunbar Elementary School, Sulphur, Oklahoma, to Meet the Needs of Pupils and Community
- MCCLENNAN, WALTER D. Major—Mathematics Minor—Chemistry  
Thesis: Distributive Operators:  $R(A \text{ plus } B) \text{ equal } RA \text{ plus } RB$
- MCDONALD, LUCY MAE Major—English Minor—Administration and Supervision  
Thesis: An Error Analysis of the Result of an Achievement Test in English Given at Dunbar High School, Ferris, Texas, 1947-1948
- OWENS, EMIEL W. Major—Agricultural Economics Minor—Agricultural Education  
Thesis: A Survey of the Economic Status of Forty Negro Farmers in Leon County, Texas
- OWENS, JENNIE L. Major—English Minor—Administration and Supervision  
Thesis: Paul Lawrence Dunbar's Treatment of Plantation Life
- PANNELL, ORVELLA TATUM Major—Administration and Supervision Minor—History  
Thesis: A Study of Negro Schools in Bell County, Texas
- POWELL, JOHN R. Major—Administration and Supervision Minor—Agricultural Education  
Thesis: A Study of the Development of Education For Negroes in Walker County



- PRINCE, CECIL L. DAVIS **Major**—Administration and Supervision **Minor**—Home Economics  
 Thesis: A Diagnostic and Corrective Study of Arithmetic in the Third, Fourth, and Fifth Grades in Lamarque Colored School, Lamarque, Texas 1947-1948
- SANDERS, CLARENCE HENRY **Major**—Administration and Supervision **Minor**—Sociology  
 Thesis: A Study of the Personnel, Status, and Educational Activities of the Negro Ministers of Dallas, Texas
- SMITH, WALTER LEON **Major**—Biology **Minor**—Chemistry  
 Thesis: Low Temperature Tolerance of 7 Different Species of the *Drosophila*
- SCOTT, DORIS RAYFORD **Major**—Administration and Supervision **Minor**—Biology  
 Thesis: A Follow-Up Study of Students Who Have Left Phyllis Wheatley High School San Antonio, Texas Since 1942
- SIMPSON, ESTUS E. **Major**—Administration and Supervision **Minor**—Agricultural Education  
 Thesis: Students Withdrawals From the Independent High School of Bastrop County, Texas, During the Period 1936-1946
- SMITH, ALLIE R. HALL **Major**—English **Minor**—Administration and Supervision  
 Thesis: A Study of the Letter Writing of High School Students in Cune High School
- SMITH, RAYMOND CLYDE **Major**—English **Minor**—Administration and Supervision  
 Thesis: A Recommended Program of Health and Physical Education For Alex S. Terrell High School Anderson, Texas
- TAYLOR, ALMUS LAMAR **Major**—Agricultural Economics **Minor**—Agricultural Education  
 Thesis: The Extent to Which Negro Farmers in Waller County Depend Upon Watermelons for their Cash Income
- THOMAS, CURTIS AUGUSTUS **Major**—Administration and Supervision **Minor**—Sociology  
 Thesis: A Suggested Supervisory Program for the Improvement of Learning and Teaching in the Luling Rosenwald School
- THOMAS, VERLIE AUGUSTA **Major**—Music Education **Minor**—Piano  
 Thesis: A Transcription for Symphony Orchestra of Beethoven's Piano Sonata, Opus 31, No. 2—First Movement
- TUBBS, LUTHER FREDERICK **Major**—Administration and Supervision **Minor**—Elementary Education  
 Thesis: A Status Study of Pupil Participation in School Control in Fourteen Accredited Negro High Schools of Texas by the Southern Association of Secondary Schools and Colleges
- WHEADON, JOHN RANDOLPH **Major**—Agricultural Economics **Minor**—Agricultural Education  
 Thesis: An Analysis of the Programs of Fourteen FSA Farms at Prairie View, Texas
- WINDOM, FRANCES LOUISE **Major**—English **Minor**—Sociology  
 Thesis: The Development of Thomas Wolfe

## 1948-1949

- ABRAMS, LARRY CARL **Major**—Agricultural Economics **Minor**—Administration and Supervision  
 Thesis: A Study of the Farm Management Programs of Fifty Negro Farmers in Bastrop County, Texas
- ADAMS, CLAUDE R. **Major**—Administration and Supervision **Minor**—Sociology  
 Thesis: The Historical Development of Education for Negroes in Texas
- ANDERSON, RAY QUINCY **Major**—Administration and Supervision **Minor**—History  
 Thesis: A Study of Negro Education in Kaufman County
- ARMSTRONG, ANNIE BELLE **Major**—Elementary Education **Minor**—Health Education  
 Thesis: Guiding Child Development as a Means of Curbing Juvenile Delinquency
- BARLOW, EVA JANE **Major**—Administration and Supervision **Minor**—Elementary Education  
 Thesis: A Study of Attendance at Four Corners in Sugarland, Texas
- BOARD, EDNA THERESA **Major**—General Education **Minor**—Home Economics  
 Thesis: The Historical Development of the Public Schools for Negroes in Liberty County, Texas from 1918 to 1948
- BOYER, FAYE McCLELLAN **Major**—Sociology **Minor**—Elementary Education  
 Thesis: The Association of Mental Health and Behavior Characteristic of Elementary School Pupils
- BRADLEY, CHARLES O'NEIL **Major**—Administration and Supervision **Minor**—Elementary Education  
 Thesis: A Study of Attendance in the Temple High School, Diboll, Texas
- BRIDGES, ESTHER H. **Major**—Elementary Education **Minor**—Health Education  
 Thesis: A Suggested Organization for a Program of Recreation to Meet the Needs of the Youth of Walker County
- BROWN ENOS E. **Major**—Agricultural Education **Minor**—Administration and Supervision  
 Thesis: A Comparative Study of Urban and Rural Schools in Six Texas Counties



- BROWN, PAULINE R. **Major**—Home Economics Education **Minor**—Supervision  
 Thesis: Analytical Study of the Activities and Problems of County Home Demonstration Agents in Texas
- BURLEY, ECOMET **Major**—Education **Minor**—Health  
 Thesis: A Study of the Health Status of Fifty Negro Families in the Evans Springs Community
- BRYD, JAMES S. **Major**—Administration and Supervision **Minor**—Health Education  
 Thesis: A Survey of the Health and Educational Conditions of the Negro Children in Madison County, Texas
- CLARK, BENJAMIN **Major**—History **Minor**—Education  
 Thesis: The Development of Labor Unions in Agriculture in the Southwest With Special Reference to Texas, 1929-1941
- CLARKE, IRIS ELAINE **Major**—Sociology **Minor**—Secondary Education  
 Thesis: Relations of Operator and Laborer in Rice Culture
- DANSBY, ANNIE B. MOORE **Major**—Elementary Education **Minor**—Rural Education  
 Thesis: A Study to Determine What Effect the Discovery of Oil in Gregg County Has Had Upon the Development of its Colored High Schools
- DANSBY, CUNEY BRUCE **Major**—Administration and Supervision **Minor**—Rural Education  
 Thesis: A Survey of Extra-Curricular Activities in A-Class High Schools in East Texas
- DANSBY, LERA H. **Major**—Administration and Supervision **Minor**—Health Education  
 Thesis: A Study of the Status of Rural Negro Schools' of Smith County
- DAVIS, WILLIAM O. **Major**—Administration and Supervision **Minor**—Industrial Education  
 Thesis: A Study of the Chief State Educational Officer of the States of the United States 1948
- DAVISS, THEODORE R. **Major**—Administration and Supervision **Minor**—Health Education  
 Thesis: A Study of Janitorial Services in Accredited Negro High Schools of Texas
- ENGLISH, LEON G. **Major**—Agricultural Economics **Minor**—Physical Education  
 Thesis: The Extent to Which Farmers Participate in the Cotton Improvement Program of Ellis County
- FISHER, COREAN J. BLAIR **Major**—Elementary Education **Minor**—English  
 Thesis: Instructional Practices Used in Teaching the Social Studies in Grades Six, Seven, and Eight, in One Hundred Schools
- FORWARD, BARNEY **Major**—Administration and Supervision **Minor**—History  
 Thesis: History of Education in Jasper County, Texas
- FRANKLIN, LUCKIE **Major**—Administration and Supervision **Minor**—Elementary Education  
 Thesis: A Comparative Study of the Health Facilities of Jackson High School and Four Adjacent Schools in Smith County
- GOODEN, BURNICE **Major**—History **Minor**—Administration and Supervision  
 Thesis: The Development of Negro Life in Madisonville, Texas, Since 1900
- GOODEN DORA E. **Major**—Elementary Education **Minor**—Health Education  
 Thesis: Reorganizing the Curriculum in Madisonville, Texas, Since 1900
- GREENE, EDWARD F. **Major**—Administration and Supervision **Minor**—Secondary Education  
 Thesis: A Study of the Graduates, Eliminates, and Present Student Body of the Weldon Elementary-School, Gladwater, Texas
- HARRIS, JAMES D. **Major**—Agricultural Economics **Minor**—Administration and Supervision  
 Thesis: Development of Soil Conservation Measures in Ellis County With Respect to Economic Gains
- HINES, HARRY JAMES **Major**—Administration and Supervision **Minor**—Secondary Education  
 Thesis: A Study of the Graduates and Drop-Outs of Booker T. Washington High School, Marlin, Texas—1937-1949
- JOHNSON, DAVIS P. **Major**—Rural Sociology **Minor**—Administration and Supervision  
 Thesis: Current Aspects of Disciplinary Problems in Negro High Schools of Texas
- JOHNSON, EDDIE MARIE HOLMES **Major**—English **Minor**—Education  
 Thesis: An Evaluation of a Free Reading Program in an Eleventh Grade
- JOHNSON, LEO JAMES **Major**—Administration and Supervision **Minor**—Rural Education  
 Thesis: The Development of the Arp Vocational High School, Arp, Texas as a Consolidated School
- JONES, CONSULA FAYE **Major**—Elementary Education **Minor**—Administration and Supervision  
 Thesis: The Influence of Some Home Factors on the Social and Academic Progress of the Second Grade Pupils of Frederick Douglass School, Jacksonville, Texas
- KEATTS, ROWENA W. **Major**—English **Minor**—Elementary Education  
 Thesis: A Proposed Program of Language Art for the Eighth Grade in the Douglass Elementary School, Mexia, Texas



- KILPATRICK, ALICE J. Major**—Education Minor—Home Economics Education  
**Thesis:** A Study of the Difficulties Encountered by Beginning Teachers Teaching in Certain Selected Negro Schools of Texas
- KING, LUCILLE MITCHELL Major**—Administration and Supervision Minor—Health Education  
**Thesis:** A Proposed Guidance Program from Gudebye Junior High School
- KNIGHTON, EMERSON S., SR. Major**—Administration and Supervision Minor—Sociology  
**Thesis:** A Survey of Instructional Practices and Materials Used in Teaching the Slow Learner in Negro High Schools of Texas
- LEWIS, ODIS F. Major**—Administration and Supervision Minor—Health Education  
**Thesis:** A Recommended Health Program for Goldsberry High School Gaston District, Henderson, Texas
- LINWOOD, TRYPHENA WINIFRED Major**—Elementary Education Minor—Health Education  
**Thesis:** Civics as the Predominant Subject to be Handled in the Social Studies
- MARK, JIM BOB Major**—Agricultural Economics Minor—Agricultural Education  
**Thesis:** How Young Men Become Established in Farming in Tyler County, Texas
- McCLURE, FOSTER D. Major**—Administration and Supervision Minor—Vocational Education  
**Thesis:** A Follow-Up Study of the Graduates and Drop-Outs of the Summerfield Negro School, Ponta, Texas—1942-1949
- McDANIEL, DOYLE LEE Major**—Agricultural Economics Minor—Administration and Supervision  
**Thesis:** Farm Tenancy in Robertson County, Texas
- MERCHER, HERBERT Major**—Physical Education Minor—Health Education  
**Thesis:** A Survey of the Health and Physical Education Programs in Class AA High Schools of Texas
- MITCHELL, TOMMYE MAYES Major**—Home Economics Education Minor—Administration and Supervision  
**Thesis:** A Study of the Occupational Status of the Prairie View Home Economics Graduates—1922-1948
- MOSBY, COTTRELL M. Major**—Administration and Supervision Minor—Elementary Education  
**Thesis:** The Availability of Educational Opportunities for Negroes in Hunt County
- MOSLEY, THOMAS W. Major**—Administration and Supervision Minor—Health Education  
**Thesis:** A Survey of the Health Conditions of the Negroes in Trinity County and A Proposed Program of Health Education
- LEE, ESCAR ROBERT Major**—Agricultural Education Minor—Rural Education  
**Thesis:** Some Aspects of an Activity Program of All Day Boys Studying Vocational Agriculture in the Crockett District, Texas
- MUCKLEROY, EFFIE H. P. Major**—Education Minor—Health Education  
**Thesis:** Conservation of Human Resources in Smith County
- OLIVER, JOSEPH GREEN Major**—Administration and Supervision Minor—Elementary Education  
**Thesis:** The Availability of Educational Opportunities for Negroes in Leon County, Texas
- PAYNE, RUTH M. Major**—Home Economics Education Minor—Administration and Supervision  
**Thesis:** An Evaluation of Diet Surveys and a Determination of Their Value as a Device For Improving Eating Habits of Youth in Six (6) Texas Counties
- PRUITT, JOHN W. Major**—Administration and Supervision Minor—Business Administration  
**Thesis:** A Study of Rankings of Occupations on Basis of Social Status
- PUGH, GOLDA GASTON Major**—Elementary Education Minor—Health Education  
**Thesis:** A Comparative Study of Handwriting Achievements of Beginners Trainer in Manuscript and Cursive Writing
- RHAMBO, ERNEST L. Major**—Administration and Supervision Minor—General Education  
**Thesis:** An Occupational Survey As A Basis for the Establishment of Terminal Education at Wharton County Junior College (1949)
- SADBERRY, CHARLES L. Major**—Administration and Supervision Minor—Elementary Education  
**Thesis:** A Ten Year Follow-Up Study of the Graduates of O. J. Thomas High School
- SADBERRY, JEWEL C. Major**—Agricultural Economics Minor—Administration and Supervision  
**Thesis:** A Study of the Economic Status of Fifty Negro Formers of Waller County, Texas
- SETTLE, JOHN THOMAS Major**—Education Minor—Sociology  
**Thesis:** Social and Educational Effects of Consolidation on the Steber Grove Community in Rusk County
- SLAUGHTER, HENRI MAE Major**—Education Minor—Health Education  
**Thesis:** A Survey of the Health Conditions of the Children in Carter G. Woodson School, Abilene, Texas



- STANTON, LONNIE A. Major—Administration and Supervision Minor—History  
 Thesis: A Follow-Up Study of the Graduates of the Anderson High School, Mart, Texas for a Ten-Year Period 1938-1947 Inclusive With Implications on Curriculum Revision
- TARVER, MYRTLE MAYFIELD Major—Elementary Education Minor—Health Education  
 Thesis: Health Conditions of Negroes in Beaumont, Texas, and Their Implication for Health Education (Based on a Survey of 100 Families)
- TAYLOR, B. J. HAMMOND Major—Agricultural Education Minor—Agricultural Economics  
 Thesis: Educational Procedures in the Development of the Agricultural Cooperatives of the Sabine Farms, Harrison County, Texas
- TAYLOR, FLOYD D. Major—Administration and Supervision Minor—Agricultural Education  
 Thesis: A Proposed Plan of Consolidation of the Rural Schools for Negroes in Travis County, Texas
- TAYLOR, LORENE McAFEE Major—Elementary Education Minor—Rural Education  
 Thesis: Methods and Procedures for Improving the Teaching of Art in the Primary Grades in the Kilgore Colored School
- VALLEY, ALONZO H. Major—Industrial Education Minor—Administration and Supervision  
 Thesis: A Reorganization to Include a Suggested Curriculum for the Booker T. Washington High School, Dallas, Texas
- VAN POTTER, MATTIE N. Major—Elementary Education Minor—Sociology  
 Thesis: A Diagnostic and Corrective Study of the First, Second, and Third Grade Arithmetic in the William Anderson Peete Elementary School of Tyler, Texas
- WASHINGTON, EDWARD L. Major—Administration and Supervision Minor—Agricultural Economics  
 Thesis: A Comparative Study of the Affect of Family, Literary Background, Economic Status and Health on Attendance in Dunbar High School, Mexia, Texas
- WASHINGTON, SAMUEL Major—History Minor—Administration and Supervision  
 Thesis: The Land-Grant Colleges for Negroes 1914-1945: A Study in Higher Education
- WHITE, INMAN Major—Agricultural Economics Minor—Administration and Supervision  
 Thesis: A Study of the Soil Conservation Practices of Fifty Negro Farmers in Waller County, Texas
- WILSON, DOROTHY B. Major—Elementary Education Minor—Administration and Supervision  
 Thesis: A Diagnostic Study of Reading Deficiencies and Corrective Measures of Grades Four Through Ten of Carver High School, Brackettville, Texas

### MASTER OF ARTS—1949-1950

- BONEY, CLARA B. PAYNE Major—Piano Minor—Music Education  
 Piano Recital
- CARROLL, MARGARET E. Major—English Minor—Administration and Supervision  
 Thesis: A Proposed Reading Program for St. Paul-Shiloh High School, Oakwood, Texas
- COLLIER, DOLPRUS E. PERRY Major—English Minor—History  
 Thesis: The Negro's Role in Legitimate Drama
- DARDEN, ROSE ETTA Major—Sociology Minor—Education  
 Thesis: The Occupational Status of Prairie View Sociology Major and Minor Graduates 1929-49
- FOWLER, IOLA M. Major—English Minor—Education  
 Thesis: The Morbid Element in the Poetry of James Thompson
- MACK, RICHARD M. Major—Music Minor—Administration and Supervision  
 Thesis: A Study of the Organization and Administration of 25 Negro High School Bands in Texas
- MUSGROVE, GEORGE ANNE TURNER Major—English Minor—Education  
 Thesis: A Study of the Reading Habits of the Students of Carver High School
- PAYNE, JAMES H. Major—Sociology Minor—History  
 Thesis: The Effects of Social and Economic Influences on Negro High School Attendance in Navasota 1945-1950
- WASH, MARGARET S. Major—Music Minor—Piano  
 Thesis: The Formulation of a Plan for Increasing the Per Cent of Student Participation in High School Musical Activities
- WELLS, LUTHER T. Major—Music Minor—Piano  
 Thesis: Beethoven, Balance of Expression and Design

### MASTER OF EDUCATION

- ADAMS, ESTER ALTON Major—Elementary Education Minor—Administration and Supervision
- ADAMS, EULAH MAYE POWELL Major—Elementary Education Minor—Health Education



- ALEXANDER, JOHN ALDEN **Major**—Administration and Supervision **Minor**—Elementary Education
- ALLEN, PHYLLIS H. **Major**—Elementary Education **Minor**—Health Education
- BARLOW, BENJAMIN J. **Major**—Administration and Supervision **Minor**—Health Education
- BLOCKER, ROBERT B. **Major**—Industrial Education **Minor**—Education
- BRADLEY, CHRISTY MAXINE **Major**—Administration and Supervision **Minor**—English
- BRAILSFORD, ARTIE **Major**—Administration and Supervision **Minor**—Agriculture
- BROWN, JOE LEE **Major**—Education **Minor**—Biology
- BURNETT, FRED DOUGLASS **Major**—Administration and Supervision **Minor**—Elementary Education
- BYRD, ROXIE DORIS **Major**—Elementary Education **Minor**—Sociology
- CANADA, JOHN KINGSTON **Major**—Administration and Supervision **Minor**—Health
- CLEAVER, EUGENE EMUEL **Major**—Administration and Supervision **Minor**—Agricultural Education
- COLEMAN, JETTIE **Major**—Home Economics Education **Minor**—Administration and Supervision
- COLEMAN, SHERMAN **Major**—Administration and Supervision **Minor**—Agricultural Education
- COLLINS, HORACE HAROLD **Major**—Administration and Supervision **Minor**—Economics
- CRAWFORD, FLORINE EASLEY **Major**—Home Economics **Minor**—Elementary Education
- FORTSON, ETHEL GLADYS BILES **Major**—Elementary Education **Minor**—Administration
- FOWLER, CARLEAN MERIEN WELLS **Major**—Education **Minor**—History
- FRAZIER, MARGARET BEATRICE **Major**—Education **Minor**—History
- GOODMAN, LULA WARREN **Major**—Administration and Supervision **Minor**—Elementary Education
- HARDEMAN, FLORENCE E. D. **Major**—Home Economics **Minor**—Elementary Education
- HARRIS, JOEL **Major**—Administration and Supervision **Minor**—Industrial Education
- HERRING, FAIRY L. **Major**—Administration and Supervision **Minor**—Elementary Education
- HILL, LOVIE M. **Major**—Home Economics **Minor**—Administration
- JACKSON, HORACE R. **Major**—Education **Minor**—Sociology
- JESSIE, A. J. **Major**—Administration **Minor**—Education
- JOHNSON, COMPTON HORACE **Major**—Administration and Supervision **Minor**—Health Education
- JOHNSON, LOY ARNOLD **Major**—Administration and Supervision **Minor**—Health Education
- JOHNSON, MARY BELLE **Major**—Elementary Education **Minor**—Health Education
- JONES, EULA MAE **Major**—Home Economics **Minor**—Administration and Supervision
- KING, ORA STARR **Major**—Elementary Education **Minor**—Health
- LISTON, IDA **Major**—Administration and Supervision **Minor**—Elementary Education
- LYONS, ALICE **Major**—Administration and Supervision **Minor**—Home Economics Education
- MARSHALL, D. M. **Major**—Administration and Supervision **Minor**—Elementary Education
- McKINNEY, MILTON **Major**—Administration and Supervision **Minor**—Health Education
- MERIDITH, GROVER C. **Major**—Administration and Supervision **Minor**—Education
- MOODY, FREDDIE R. **Major**—Elementary Education **Minor**—Home Economics
- MORRIS, MITTIE A. **Major**—Education **Minor**—English
- PALMER, WILLIE HARVEY, SR. **Major**—Administration and Supervision **Minor**—Agricultural Education
- PITTS, ALLIE FAYE **Major**—Elementary Education **Minor**—Sociology
- POWELL, A. B. **Major**—Administration and Supervision **Minor**—Elementary Education
- PRICE, A. L. **Major**—Administration and Supervision **Minor**—Sociology
- PROBASCO, JEANETTA FOSTON **Major**—Education **Minor**—Home Economics
- PYLE, BAILEY JEFFERSON **Major**—Administration and Supervision **Minor**—Elementary Education
- ROSS, DELIA P. **Major**—Elementary Education **Minor**—Administration and Supervision
- SANDERS, EMMA IDELL **Major**—Elementary Education **Minor**—Administration and Supervision
- SANDERS, ROBERT BERT **Major**—Administration and Supervision **Minor**—Elementary Education
- SHEFFIELD, CELIA R. **Major**—Elementary Education **Minor**—Health Education



- SMITH, IOLA BROWN Major—Elementary Education Minor—Administration and Supervision
- TAYLOR, E. D. REAN Major—Administration and Supervision Minor—Music
- THOMAS, DANIEL WEBSTER Major—Administration and Supervision Minor—Health
- TRAYLOR, ELMA LOIS MCKENZIE Major—Elementary Education Minor—Administration and Supervision
- TURNER, ANGELINE CROWE Major—Elementary Education Minor—Health Education
- TURNER, ODIS H. Major—Administration and Supervision Minor—Health
- WADDY, EDWARD S. Major—Administration and Supervision Minor—Elementary Education
- WESLEY, BENNIE J. Major—Administration and Supervision Minor—Elementary Education
- WRIGHT, THOMAS JEFFERSON Major—Administration and Supervision Minor—Health Education
- YOUNG, PAULINE A. Major—Elementary Education Minor—Administration and Supervision

## MASTER OF SCIENCE

- ADAMS, CORDELIA C. Major—Elementary Education Minor—Home Making  
Thesis: The Role of Informal Education in the Treatment and Prevention of Juvenile Delinquency
- ALLEN, DELLA MAE Major—Physical Education Minor—Health  
Thesis: A Proposed Program of Health and Physical Education for the Goliad Colored High School
- ANDERSON, WILLIE JAMES Major—Administration and Supervision Minor—Elementary Education  
Thesis: The Problem of Attendance in the Colored Schools of Trinity County
- BLUITT, LEROY Major—Administration and Supervision Minor—Sociology  
Thesis: Reading Difficulties in a Low Ninth Grade Group at the Lincoln High School, Dallas, Texas 1948-1949
- BOLDEN, VERNON VAN Major—Chemistry Minor—Administration and Supervision  
Thesis: The Preparation of Yeast Nucleic Acid and its Effect on the Growth of Rats
- BRITTON, LAWRENCE MILTON Major—Physical Education Minor—Administration and Supervision  
Thesis: A Survey of the Leisure Time Activities of the Male Students of Prairie View Agricultural and Mechanical College With Suggestions for Improvements
- BROWN, FRED DOUGLASS Major—Agriculture Minor—Administration and Supervision  
Thesis: A Study of Rose Production and Rose Products
- BROWN, TRUDIE Major—Education Minor—English  
Thesis: Analysis of the Spelling Errors Found in the Seventh and Eighth Grades in Judea High School, 1949-1950
- CASH, LARRY B. Major—Agricultural Education Minor—Agricultural Economics  
Thesis: Educational Implication of the Incidence of Negro Participation in Producer Consumer Cooperatives
- CLAYBON, DENNIS L. Major—Administration and Supervision Minor—Elementary Education  
Thesis: A Study of Special Education in Texas with Particular Reference to the Orthopedically Handicapped Children in Texas
- CLAYBON, LAURIE E. Major—Administration and Supervision Minor—Elementary Education  
Thesis: A Proposed Physical Plant for the Forney Negro School with Special Reference to Consolidation
- CLEAVER, LEROY Major—Chemistry Minor—Education  
Thesis: The Catalytic Oxidation of Toluene in the Vapor Phase to Benzoic Acid
- COLLINS, MILLIE S. Major—Administration and Supervision Minor—Economics  
Thesis: The Role of Custom in the Diets of One Hundred Negro Families
- DOUGLASS, BLANCHE M. Major—Home Economics Education Minor—Administration and Supervision  
Thesis: The Study of the Food Consumption of Twenty Families in Post Oak Community, Ledbetter, Texas
- FLUEWELLEN, LUZONE Major—Education Minor—Home Economics  
Thesis: A Proposed Adult Education Program for the Arp Colored School Community, Arp, Texas
- FORWARD, IDA MAE Major—Elementary Education Minor—Health Education  
Thesis: A Study of Speech Defects as Found Among Negro Elementary School Children of Jasper County
- FOSTON, ARTHUR LEE Major—Administration and Supervision Minor—Mathematics  
Thesis: The Administration of Mathematics in a Selected Group of Negro Secondary Schools in Texas



- GAYNOR, NORVEL Major—Administration and Supervision Minor—Elementary Education  
 Thesis: A Follow-up Study of the Graduates and Drop-Outs of the Hooks Colored High School, Hooks, Texas
- GOODE, JESSE F. Major—Administration and Supervision Minor—Elementary Education  
 Thesis: An Analysis of the Records Kept in the Negro Elementary Schools of Texas
- GRAYS, HARRISON WELDON Major—Agricultural Economics Minor—Agricultural Education  
 Thesis: An Economic Study of Fifty Dairy Farms in Hopkins County From 1938 to 1948
- GREEN, BERNICE J. Major—Physical Education Minor—Education  
 Thesis: A Study of the Leisure Time Activities of the Negro Physical Education Teachers of Houston, Texas
- HALLMAN, GRANT T. Major—Agricultural Economics Minor—Administration and Supervision  
 Thesis: Historical Study of the Rural Electrification Administration and the Development of the Navarro County Electric Co-op
- HILLMAN, RUTH VIRGIL Major—Administration and Supervision Minor—Health  
 Thesis: A Tentative Survey of the Home Room as a Unit of Organization in the Four-Year Public High School of Texas
- MARSHALL, T. D. Major—Administration and Supervision Minor—Elementary Education  
 Thesis: Evaluation of the Lincoln High School
- MCDANIEL, MATTYE MAYCEO Major—Education Minor—Home Economics  
 Thesis: A Study of the Administrators' Opinions of the Difficulties Experienced by Beginning Teachers in Selected Negro High Schools in Texas, 1949-50
- McGOWEN, MABEL YOUNG Major—Education Minor—Health  
 Thesis: A Diagnostic and Remedial Speech Correction Instruction Program for First Grade Pupils with Specific Speech Disorders in the Carroll Street Elementary School
- McGARY, HELEN RUTH Major—Administration and Supervision Minor—Elementary Education  
 Thesis: A Progress Report of Three Years Study of Reading in Cass County
- MOLETT, FRANCIS A. Major—Administration and Supervision Minor—Elementary Education  
 Thesis: A Suggestive Program for the Improvement of Public Relations in Hebert High School, Beaumont, Texas
- MOLETT, NAOMI LEE GUIDRY Major—Elementary Education Minor—Health  
 Thesis: A Study of the Vocabulary Used and Spelling Errors Made in Written Compositions of the Sixth-Grade Children in the Hebert Elementary School of Beaumont, Texas
- MOSELEY, ERA MARIE Major—Elementary Education Minor—Administration and Supervision  
 Thesis: Determining Reading Readiness of all First Grade Negro Children Entering Longview Public Schools
- PIERSON, FRANK R. Major—Administration and Supervision Minor—Physical Education  
 Thesis: Suggested Aims and Procedures Designed to Develop Desirable Community School Relationship in the Charlton Pollard School
- PORTIS, VIVIAN Major—Elementary Education Minor—Administration and Supervision  
 Thesis: A Survey of the Health Conditions of the Negro Section of Calvert, Texas and Their Possible Effect on Elementary School Children
- RANDLE, CHARLES F. Major—Agricultural Economics Minor—Administration and Supervision  
 Thesis: A Study of the Farm Management Practices of Fifty Negro Farmers in McLennan County, Texas
- REECE, FRONCELL Major—Agricultural Economics Minor—Physical Education  
 Thesis: A Study of the Economic Status of Fifty Negro Farm Families of Montgomery County, Texas
- REYNOLDS, LEATHA MARGARET Major—Education Minor—English  
 Thesis: A Diagnostic Study for the Correction of Speech Defects Found in the Colored Elementary School of LaMarque, Texas
- RUTLEDGE, PAUL Major—Agricultural Education Minor—Administration  
 Thesis: An Analysis of Official Travel Done by Vocational Agriculture Teacher
- SAUNDERS, OWENA HALL Major—Elementary Education Minor—Health Education  
 Thesis: An Evaluation of Choral Reading in the Elementary Grades
- SIMS, VAN E. Major—History Minor—Administration and Supervision  
 Thesis: The Willette Rutherford Banks Administration: A Study of the Historical Development of Prairie View Agricultural and Mechanical College
- SPROTT, GLADYS Major—Elementary Education Minor—Health Education  
 Thesis: A Suggested Program for Organization of Special Education for Negro Children in the South Park School, District, Beaumont, Texas
- TANKSLEY, HASSELL Major—Physical Education Minor—Health Education  
 Thesis: A Survey of the Health and Physical Education Program in the Negro Colleges and Universities of Texas



- TAYLOR, ELVIE **Major**—General Education **Minor**—Home Economics Education  
Thesis: Proposed Guidance Program for Goliad Colored School in Goliad, Texas
- WALKER, JEFFERSON D. **Major**—Administration and Supervision **Minor**—Industrial Education  
Thesis: A Survey of the George Washington Carver High School, Navasota, Texas
- WALKER, JOHNNIE MAE **Major**—Elementary Education **Minor**—Administration and Supervision  
Thesis: A Survey of Variable Factors Affecting a Group of Children in the Fifth and Sixth Grades at Harlem Elementary School, Baytown, Texas
- WASHINGTON, ELZADIE L. **Major**—Administration and Supervision **Minor**—Elementary Education  
Thesis: A Study to Determine the Causes of Instructional Problems and Handicaps of the Elementary Teachers of Limestone and Freestone Counties
- WHITE, DEMOSTHENES **Major**—Agricultural Education **Minor**—Administration and Supervision  
Thesis: The Effects of Vocational Education in Agriculture on Farming in Wharton County, Texas
- WHITE, JOHNNIE MAE **Major**—Administration and Supervision **Minor**—Home Economics Education  
Thesis: The Environmental Forces in the Behavior and Development of 411 Freshmen Enrolled at Prairie View 1947-48
- WRIGHT, HELEN ALEXANDER M. **Major**—Education **Minor**—Supervision  
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